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PPAP Package For:

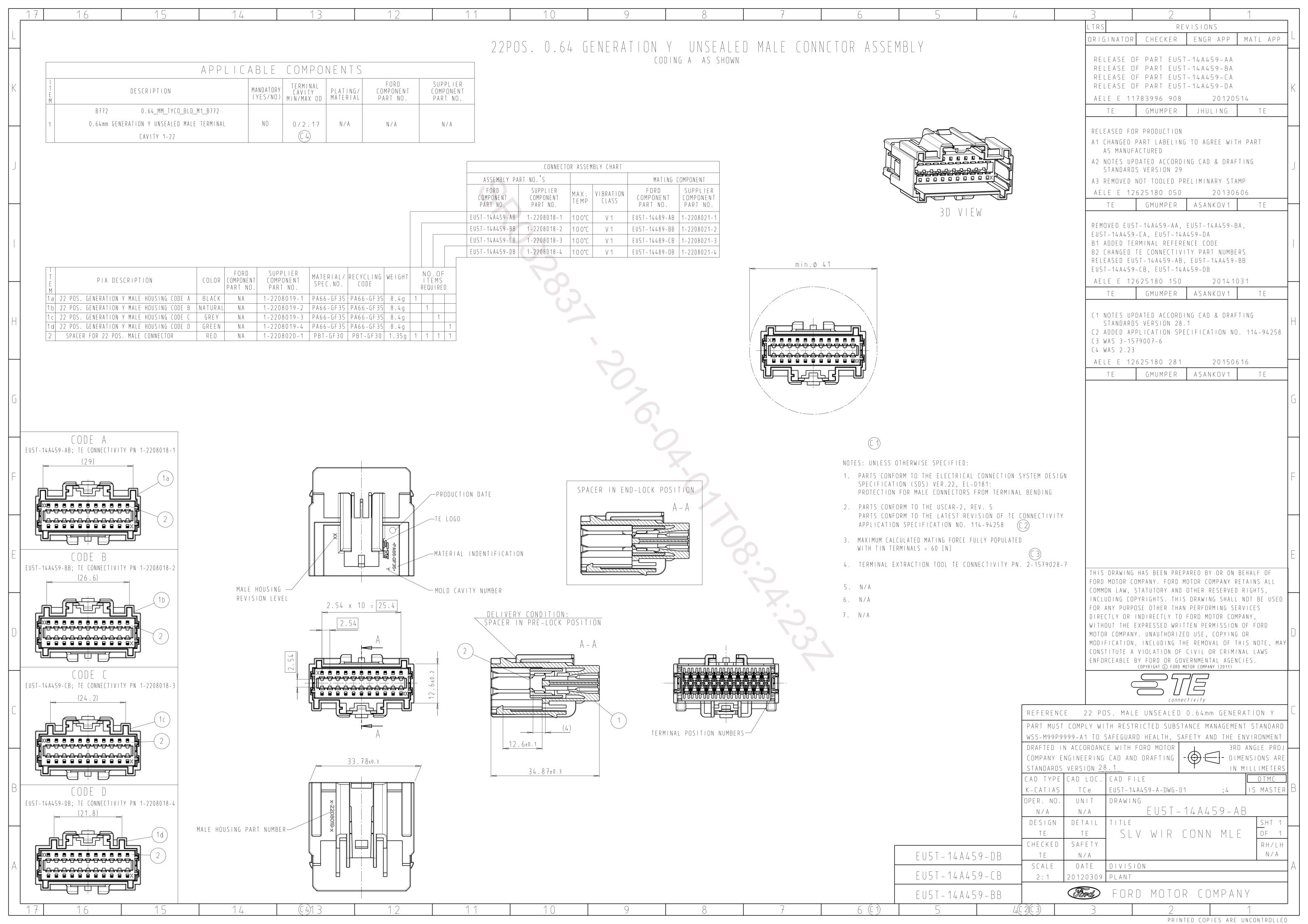
NURSAN ELEKTRIK DONANIM A TE Part: 2208018-1 21-November-2018

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This PPAP may contain documentation that is confidential to Tyco Electronics Corporation and its worldwide subsidiaries and affiliates.



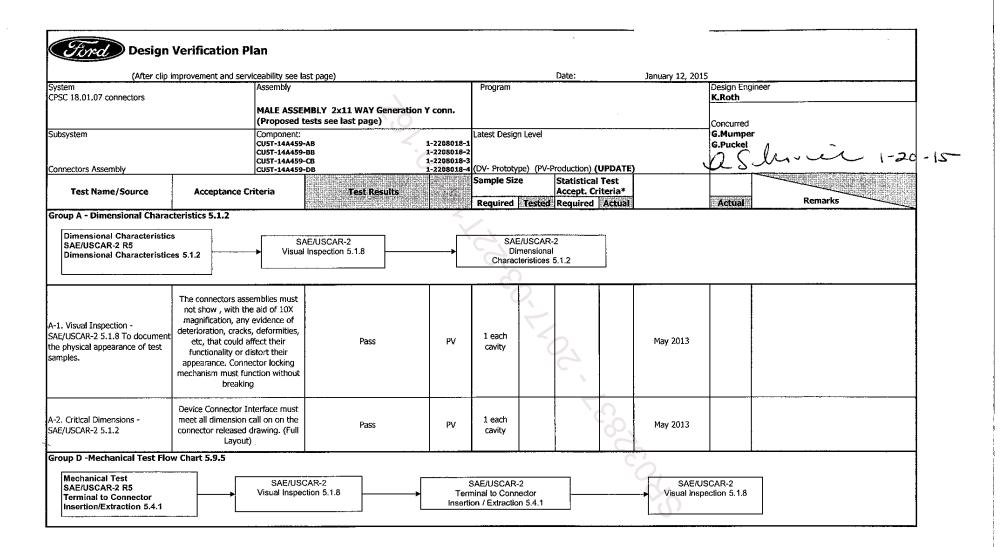
Section 1 Design Records





Section 3

Customer Engineering Approval





Section 5

Process Flow Diagram

The Process Flow Diagram, if included, is a confidential document belonging to TE Connectivity. As such, it may not be further distributed and is subject to the conditions of the nondisclosure agreement.

	AUTOMO:	TIVE			Pro	cess F	low Diagram						
Program:	-000004529			R B	evision Level:				Created: 12.06.2012				
Part numb	per/Latest Change Le 8-1/-2/-3/-4	evel:		R B	evised by: aeke, Hendrik, P	SE, Mar	nufacturing Enginee	r	Modified: 28.06.2012				
Part Desc Gen Y 2	ription: 2x11 Male Assen	nbly							Page:				1/1
Symbol	Reference	Symbol	Reference	Symbol	Reference	Part/ Pro- cess Num- ber	Process Name/ Operation Des- cription	No.	Product Characteristic	Clas s.	No.	Process Characteristic	Clas s.
	1.4.1 Incoming In-		 		1.5.1 Incoming In-	1.4.1	1.4.1 Incoming Inspection of PA granulate						
	spection of PA granulate				spection of PBT granulate	1.5.1	1.5.1 Incoming Inspection of PBT granulate						
	1.4.2			•	1.5.2 Drying of	1.4.2	1.4.2 Drying of PA granulate						
	Drying of PA granulate				Drying of PBT granulate	1.5.2	1.5.2 Drying of PBT granulate						
		•	1.6.1 Family molding of separate housing and spacer parts			1.6.1	1.6.1 Family molding of separate housing and spacer parts						
			1.6.2 Loading grip- per	 		1.6.2	1.6.2 Load- ing gripper						
	- 		1.6.3 Inspection Station			1.6.3	1.6.3 Inspection Station		0.0	1	þ		
	-; 		1.6.4 Assembly Housing- Spacer			1.6.4	1.6.4 Assembly Housing- Spacer	۲۸	7:77.				
			1.6.5 Assembly Inli- ne Control			1.6.5	1.6.5 Assembly Inline Control						
			1.6.6 Packaging in- to tray			1.6.6	1.6.6 Packaging into tray						
		•	1.6.7 Storage		1 2	1.6.7	1.6.7 Storage						
				183	 								
	I	Ç	ROS	1	1		1	<u> </u>	1	1	<u> </u>	1	



Section 7

Control Plan

The Control Plan, if included, is a confidential document belonging to TE Connectivity. As such, it may not be further distributed and is subject to the conditions of the nondisclosure agreement.



CONTROL PLAN

Assembly

	Prototype		Pre-Launch	✓ Production		KEY CONTACT / PHONE		DATE (orig)	REVISION		
TRLplannr :			_	_		Yves Vantoortelboom			Rev R12		
ART NR + LATI	EST CHANGE LEVEL					CORE TEAM			CUST ENG APPROVAL / DATE (if req'd)		
ee Overview	partnumbers					Y. Vantoortelboom - B.	Van Loocke - H. Baeke -	T. Ryckx - R.			
ARTNAME/DES						SUPPLIER/PLANT APPRO	VAL / DATE		CUST QUALITY APPROVAL / D	DATE (if req'd)	
	Male GenY Pin Hsg As	-									
	Female GenY Rec Hsg	Assy									
EUPPLIER/PLAN E Oostkamp			SUPPLIER CODE			OTHER APPROVAL / DATE	(if req'd)		OTHER APPROVAL / DATE (if	req'd)	
Part /	Process name /	Machine, Device, Jig,	CHARACTERISTICS		Spec		MET	THOD		Action(s) when non conform	
Process Number	Operation Description	Tools For Manufacturin g	Nr Product	Process	Char. Class	Product / Process Specifications & Tolerance	Evaluation Measurement Technique	Size Frequenc	y Control Method	Reaction Plan	
verview Par	t numbers										
	TE Assy Part no	umber (1)	Customer	Part number		Revision	Part n° housing(2) int. Molded	Part n° spacer(3) int. Molded	Packaging Instruction (4)	QIP (5)	
	TE Assy Part no 1-2208021-1 (Cod	` ,	Customer Ford	Part number EU5T-14489-AB		Revision	• , ,		Packaging Instruction (4)	QIP (5) 129-90948	
		A - Female)					int. Molded	int. Molded			
	1-2208021-1 (Cod	A - Female) B - Female)	Ford	EU5T-14489-AB		В	int. Molded 1-2208022-1 (Black)	int. Molded 0-2208023-1	107-90512	129-90948	
	1-2208021-1 (Cod 1-2208021-2 (Cod	A - Female) B - Female) C - Female)	Ford Ford	EU5T-14489-AB EU5T-14489-BB		B B	int. Molded 1-2208022-1 (Black) 1-2208022-2 (Nature)	int. Molded 0-2208023-1 0-2208023-1	107-90512 107-90512	129-90948 129-90948	
	1-2208021-1 (Cod 1-2208021-2 (Cod 1-2208021-3 (Cod	A - Female) B - Female) C - Female)	Ford Ford Ford	EU5T-14489-AB EU5T-14489-BB EU5T-14489-CB		В В В	int. Molded 1-2208022-1 (Black) 1-2208022-2 (Nature) 1-2208022-3 (Grey)	int. Molded 0-2208023-1 0-2208023-1 0-2208023-1	107-90512 107-90512 107-90512	129-90948 129-90948 129-90948	
	1-2208021-1 (Cod 1-2208021-2 (Cod 1-2208021-3 (Cod	A - Female) B - Female) C - Female) D - Female)	Ford Ford Ford	EU5T-14489-AB EU5T-14489-BB EU5T-14489-CB		B B B	int. Molded 1-2208022-1 (Black) 1-2208022-2 (Nature) 1-2208022-3 (Grey)	int. Molded 0-2208023-1 0-2208023-1 0-2208023-1	107-90512 107-90512 107-90512	129-90948 129-90948 129-90948	
	1-2208021-1 (Cod 1-2208021-2 (Cod 1-2208021-3 (Cod 1-2208021-4 (Cod	A - Female) B - Female) C - Female) D - Female)	Ford Ford Ford Ford	EU5T-14489-AB EU5T-14489-BB EU5T-14489-CB EU5T-14489-DB	3	B B B B	int. Molded 1-2208022-1 (Black) 1-2208022-2 (Nature) 1-2208022-3 (Grey) 1-2208022-4 (Green) 1-2208019-1 (Black)	int. Molded 0-2208023-1 0-2208023-1 0-2208023-1 0-2208023-1	107-90512 107-90512 107-90512 107-90512	129-90948 129-90948 129-90948 129-90948	
	1-2208021-1 (Cod 1-2208021-2 (Cod 1-2208021-3 (Cod 1-2208021-4 (Cod 1-2208018-1 (Co	A - Female) B - Female) C - Female) D - Female) d A - Male) d B - Male)	Ford Ford Ford Ford Ford	EU5T-14489-AB EU5T-14489-BB EU5T-14489-CB EU5T-14489-DB EU5T-144459-AE	3	B B B B B	int. Molded 1-2208022-1 (Black) 1-2208022-2 (Nature) 1-2208022-3 (Grey) 1-2208022-4 (Green)	int. Molded 0-2208023-1 0-2208023-1 0-2208023-1 0-2208023-1 1-2208020-1	107-90512 107-90512 107-90512 107-90512	129-90948 129-90948 129-90948 129-90948	

revision ctlplan	Date□	Change	Changed by
Rev00	5/6/2013	Original	Yves Vantoortelboom
Rev00	8/2/2013	Revised numbering of male dummy parts for in-line control testequipment	Yves Vantoortelboom
Rev01	2/18/2015	Revised for new part revision of 22 Pos. 0.64 Male GenY Pin Hsg Assy	Yves Vantoortelboom
Rev02	2/25/2015	Revised for new part revision of 22 Pos. 0.64 Rec GenY Hsg Assy	Yves Vantoortelboom
Rev03	6/4/2015	Dummy run interval added to TPM chart	J. Duthieuw / B. Van Loock
Rev04	10/10/2016	Revised with changed frequency for dummy run	JF Van den Brande
Rev R11	3/28/2018	Adjustment of gauge number 21-1775883-99010 into 21-1775883-99020	Francis Devos
Rev R12	3/28/2018	General review of the gauges	Francis Devos
		3.	
-			

Part /	Process name /	Machine, Device, Jig,	CHARACTERIS	STICS	Spec	ME	THOD			Action(s) when non conform
Process Number	Operation Description	Tools For Manufacturin g		Process	Char. Product / Process Class Specifications & Tolerance	Evaluation Measurement Technique	Size	Frequency	Control Method	Reaction Plan
1.3.1 / Female GenY Rec Hsg & Spacer			ed on Generic Control Pla d on Generic Control Plan							
1.1.1 & 1.2.1	Reception & Entrance Female Housing & Fe		ls							
Molded parts /01-02	Reception of raw material in warehouse	Purchased material	Identification	-	PartNumber (PN) Product reference	Visual	1	Each delivery	Compare delivery note and CMR	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90842: Handling of supplier complaints
			Damages	-	Damages	Visual	All	Each delivery	Check status of the packaging	Acc. Procedure 407-90013-01: Handling of product non-conformities
Molded parts /04	Incoming inspection (Granulate) Acc.Procedure 102-90834	Purchased material	Material specifications	-	TE specifications and/or Supplier specifications	Visual	1		Check results in Material Certificate	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90842: Handling of supplier complaints
			Material specifications or Properties of polymers acc. QIP (e.g. viscosity, ash content,	-	TE specifications and/or Supplier specifications	Viscosity: F49-F6947 Ash Content: F49-F6933 MFI: 109-90803	Acc. SAP Skip lot		Verify material certificate by means of lab analysis equipment and available specifications	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90842: Handling of supplier complaints
1.1.2 & 1.2.2	Drying of granulate Female Housing & Fe	male Spacer	MEL ata)		1.2					
Molded parts /05			Correct material	-	PartNumber (PN) Product reference	Visual	1	Each supply at dryer	Information on the drying equipment	Acc. Procedure 407-90013-01: Handling of product non-conformities Replace by correct material Take the correct material
	Drying of Granulate Acc. Inspection Spec. 129-90005	Centralised drying equipment (fixed)	-	Temperature & Time	TE specifications and/or Supplier specifications	Visual	-	Each supply at dryer	Compare machine settings to set-up instructions	Acc. Procedure 407-90013-01: Handling of product non-conformities Adjust machine settings
			SRO?	Humidity (RV%)	TE specifications and/or Supplier specifications	Working Instruction 407-91001	1	1 molding area per week	Check	Acc. Procedure 407-90013-01: Handling of product non-conformities Adjust machine settings
		Separate Drying Equipment (mobile)	-	Temperature & Time	TE specifications and/or Supplier specifications	Visual	-	Each supply at dryer	Comparing machine settings to set-up instructions	Acc. Procedure 407-90013-01: Handling of product non-conformities Adjust machine settings
				Humidity (RV%)	TE specifications and/or	Working Instruction 407-91001	1	1 molding area per	Check	Acc. Procedure 407-90013-01: Handling of product non-conformities

Part /	Process name /	Machine, Device, Jig,	Device, Jig,	STICS	Spec		ME	THOD			Action(s) when non conform	
Process Number	Operation Description	Tools For Manufacturin g	Nr	Product	Process	Char. Class	Product / Process Specifications & Tolerance	Evaluation Measurement Technique	Size	Frequency	Control Method	Reaction Plan
Molded parts /06	Dried granulate at machine		Co	orrect material	-		Factory order sheet, with BOM	Visual	1	Each Set-Up	Set-Up Sheet Process Start Sheet	Acc. Procedure 407-90013-01: Handling of product non-conformities Replace by correct material Take the correct material
	Molding (Set-Up)	Molding machine Arburg (M701) & Mold 21-1775881	-		Correct devices and set-up parameters		Set-up instructions and set-up parameters on disk	Visual	-	Each Set-Up	Compare machine settings to set-up instructions	Adjust machine settings
			lde	entification	-		Coding / Colour	* Poka Yoke mould changeover kit * Mould and coding detection connector	100%	Each Set-Up In-line integrated	Correct Changeover	Acc. Procedure 407-900013-01: Handling of product non-conformities Adjust the machine setting
					-		Coding / Colour	Functional	1 part/cav	Each set-up	Functional check with according counterpart	Acc. Procedure 407-90013-01: Handling of product non-conformities Adjust the machine setting
					-		Markings: PN, Cavity, Revision, Terminal Position, Logo, Material ID, Date clock	Visual	1 part/cav	Each Set-Up	Verify if markings on part are correct	Acc. Procedure 407-90013-01: Handling of product non-conformities Adjust the machine setting
				sual inspection cc. QIP 129-90948	-		General Inspection (no burrs, gatemark sunk, completely filled,)	Visual	1 part/cav	Each Set-Up	Accept / Reject	Acc. Procedure 407-900013-01: Handling of product non-conformities Adjust the machine setting
					3	, "		Visual Gauge nr.: 51-1775883-99040	1 part/cav	Each Set-Up	Accept / Reject	Acc. Procedure 407-900013-01: Handling of product non-conformities Adjust the machine setting
				mensional spection		(1) h (2) f (3) f	Housing Female: (1) Depth snap: 12,1 (2) Length: 31,1 (3) Width: 14,375	* CMM / Meas. Lab	1 part/cav	Each Set-Up	Accept / Reject	Acc. Procedure 407-90013-01: Handling of product non-conformities Adjust the machine setting
				9.		(1) f (2) f (3) h	<u>Spacer Female</u> : (1) Depth snap: 6,075 (2) Height snap: 0,575 (3) Length: 29,43	* CMM / Meas. Lab				
Production N	 //olding sing & Female Spacer											

Part /	Process name /	Machine, Device, Jig,	CHARACTERISTICS			Spec METHOD					Action(s) when non conform
Process Number	Operation Description	Tools For Manufacturin g	Nr Product	Process	Char. Class	Product / Process Specifications & Tolerance	Evaluation Measurement Technique	Size	Frequency	Control Method	Reaction Plan
Molded parts /06	Molding (Serial Production)	Molding machine Arburg (M701) & Mold 21-1775881	-	Molding parameters		Tolerance frame on parameters	Software controlled Password protected	100%	In-line integrated	Sorting automatically	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
			Visual inspection acc. QIP / 129-90948	-		General Inspection (no burrs, gatemark sunk, completely filled,)	Visual	1 part/cav	Each 2 hours	Accept / Reject	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
				-		General Inspection (no damage due to core breakage)	Visual Gauge nr.: 51-1775883-99040	1 part/cav	Each 2 hours	Accept / Reject	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
			Physical properties (PBT or PET only) (Spacer Only)	-		Material Specifications (e.g. viscosity, % GF,)	Compare inspection report supplier by means of lab analysis equipment	1	1 molding area per week	Review	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
Molded parts /07	Molding (Serial Production) Line inspector verification, depending on Q-status operator	Molding machine Arburg (M701) & Mold 21-1775881	All operator inspections	-		See operator inspection	See operator inspection	J .	Dependin g on Q- status operator	Accept / Reject	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
1.3.2 / Female GenY Rec Hsg &	Loading Parts in Gripp Female Housing & Fer					18-11-1					
1.3.2	Loading Parts in Gripper (Transport from mold towards Assy Line)	Gripper & Assy Line 51-1775883	-	Pressence of parts	.2	All positions of gripper loaded with parts: - in end position - in straight position	Part detection in robot gripper	100%	In-line integrated	Alarm / Line Stop in case of failure	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
	Loading Parts in Gripper (Transport from Assy Line back to mold)	Gripper & Assy Line 51-1775883	203	Absence of parts		All positions of gripper must be empty	Part detection in robot gripper	100%	In-line integrated	Alarm / Line Stop in case of failure	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
1.3.3 / Female GenY Rec Hsg &	Laying-Off Parts in Ins Female Housing & Fer		5)								
1.3.3	Laying-Off Parts in Inspection Station for QIP checks (see 1.3.1 Family Molding)	Gripper & Assy Line 51-1775883	-	Request QIP parts by button push		QIP parts must be requested acc. frequency mentioned in QIP	Time control	100%	In-line integrated	* Alarm if late request * Machine stop if no request	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints

Part / Process name / Device, Jig, CHARACT				Spec Spec			ME		Action(s) when non conform		
Process Number	Operation Description	Tools For Manufacturin g	Nr Product	Process	Char. Class	Product / Process Specifications & Tolerance	Evaluation Measurement Technique	Size	Frequency	Control Method	Reaction Plan
1.3.4 / Female GenY Rec Hsg & Spacer	Assembly Female Housing Asse	embly									
1.3.4	22 Pos. 0.64 GenY Receptable Housing Assy (Assembly)	Assy Line 51-1775883	Visual inspection acc. QIP / 129-90948	-		Parts not damaged	Visual	7 Parts	Each Box	Accept / Reject	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
1.3.5 / Female GenY Rec Hsg & Spacer	In-Line Control Female Housing Asse	embly						.1.			
1.3.5	22 Pos. 0.64 GenY Receptable Housing Assy (In-Line Control)	Assy Line 51-1775883	-	Check teststation		Teststation functions OK	Dummy parts *D1: too deep (2x) *D2: too deep (1x) *D3: not deep enough (2x) *D4: not deep enough (1x) *D5: OK part - Prelock	All dummy parts defined	Acc. TPM schedule	Accept / Reject	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
			Dimensional Inspection	-	f	Housing Assy Female: Spacer in Prelock Pos. 3,9		100%	In-line integrated	Sorting automatically	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
1.3.6 / Female GenY Rec Hsg & Spacer	Packaging Female Housing Asse	embly		2831	.2)					
1.3.6	22 Pos. 0.64 GenY Receptable Housing Assy (Packaging)	Assy Line 51-1775883	Correct Packaging Materials)		Packaging Instruction 107-90512	Visual	1	Each Box	Check	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
			Correct Label (Corresponds to contents of box)	-		Packaging Instruction 107-90512	Label scan (Corresponds to PN produced)	1	Each Box	Machine stop if scanned label does not correspond with PN produced	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
			-	Number of blisters		Packaging Instruction 107-90512	Counters in packaging unit	100%	In-line integrated	Alarm if not operative	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints

Part /	Process name / [Machine, Device, Jig, Tools For	CHARACTERIS	STICS	Spec		ME	THOD			Action(s) when non conform
Process Number	Operation Description	Tools For Manufacturin I	Nr Product	Process	Char. Class	Product / Process Specifications & Tolerance	Evaluation Measurement Technique	Size	Frequency	Control Method	Reaction Plan
			-	Number of parts		Packaging Instruction 107-90512	Counters in packaging unit	100%	In-line integrated	Alarm if not operative	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
1.3.7 / Female GenY Rec Hsg & Spacer	Storage Female Housing Asse	mbly									
1.3.7	22 Pos. 0.64 GenY Receptable Housing Assy (Storage)					General instructions for internal warehousing & distribution					Acc. Procedure 102-90843: Handling of internal complaints
GenY Pin Hsg & Spacer	Internal Molded Male S Family Moulding	Spacer: Based or	on Generic Control Plan n Generic Control Plan M			• •	N. A.A.	OAL	,		
1.4.1 & 1.5.1	Reception & Entrance Male Housing & Male		s				7//				
Molded parts /01-02	Reception of raw material in warehouse	Purchased material	Identification	-		PartNumber (PN) Product reference	Visual	1	Each delivery	Compare delivery note and CMR	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90842: Handling of supplier complaints
			Damages	-		Damages	Visual	All	Each delivery	Check status of the packaging	Acc. Procedure 407-90013-01: Handling of product non-conformities
Molded parts /04	Incoming inspection (Granulate) Acc.Procedure 102-90834	Purchased material	Material specifications	031	."	TE specifications and/or Supplier specifications	Visual	1	Each delivery	Check results in Material Certificate	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90842: Handling of supplier complaints
			Material specifications or Properties of polymers acc. QIP (e.g. viscosity, ash content,	200		TE specifications and/or Supplier specifications	Viscosity: F49-F6947 Ash Content: F49-F6933 MFI: 109-90803	Acc. SAP Skip lot	Acc. SAP Skip lot	Verify material certificate by means of lab analysis equipment and available specifications	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90842: Handling of supplier complaints
1.4.2 & 1.5.2	Drying of granulate Female Housing & Fer	nale Spacer	1841 1 242								
Molded parts /05	Reception of raw material at drying equipment		Correct material	-		PartNumber (PN) Product reference	Visual	1	Each supply at dryer	Information on the drying equipment	Acc. Procedure 407-90013-01: Handling of product non-conformities Replace by correct material Take the correct material
	Drying of Granulate Acc. Inspection Spec. 129-90005	Centralised drying equipment (fixed)	-	Temperature & Time		TE specifications and/or Supplier specifications	Visual	-	Each supply at dryer	Comparing machine settings to set-up instructions	Acc. Procedure 407-90013-01: Handling of product non-conformities Adjust machine settings

Part / Process name		Device, Jig,		OTENIO 1100	Spec						Action(s) when non comorni
Process Number	Operation Description	Tools For Manufacturin g	Nr Product	Process	Char. Class	Product / Process Specifications & Tolerance	Evaluation Measurement Technique	Size	Frequency	Control Method	Reaction Plan
			-	Humidity (RV%)		TE specifications and/or Supplier specifications	Working Instruction 407-91001	1	1 molding area per week	Check	Acc. Procedure 407-90013-01: Handling of product non-conformities
											Adjust machine settings
		Separate Drying Equipment	-	Temperature & Time		TE specifications and/or Supplier specifications	Visual	-	Each supply at dryer	Comparing machine settings to set-up instructions	Acc. Procedure 407-90013-01: Handling of product non-conformities
		(mobile)							, ,		Adjust machine settings
				Humidity (RV%)		TE specifications and/or Supplier specifications	Working Instruction 407-91001	1	1 molding area per week	Check	Acc. Procedure 407-90013-01: Handling of product non-conformities
											Adjust machine settings
•	olding machine sing & Female Spacer										
Molded parts /06	Dried granulate at machine		Correct material	-		Factory order sheet, with BOM	Visual	1	Each Set-Up	Set-Up Sheet Process Start Sheet	Acc. Procedure 407-90013-01: Handling of product non-conformities
							. N	On.			Replace by correct material Take the correct material
	Molding (Set-Up)	Molding machine Arburg (M701) & Mold 21-1775880	-	Correct devices and set-up parameters		Set-up instructions and set-up parameters on disk	Visual	-	Each Set-Up	Compare machine settings to set-up instructions	Adjust machine settings
			Identification	-		Coding / Colour	* Poka Yoke mould changeover kit	-	Each Set-Up	Correct Changeover	Acc. Procedure 407-90013-01: Handling of product non-conformities
						18'	* Mould and coding detection connector	100%	In-line integrated	In-line Detection	Adjust the machine setting
				-	.2	Coding / Colour	Functional	1 part/cav	Each set-up	Functional check with according counterpart	Acc. Procedure 407-90013-01: Handling of product non-conformities
				23							Adjust the machine setting
				03/		Markings: PN, Cavity, Revision, Terminal Position,	Visual	1 part/cav	Each Set-Up	Verify if markings on part are correct	Acc. Procedure 407-90013-01: Handling of product non-conformities
			SY			Logo, Material ID, Date clock					Adjust the machine setting
			Visual inspection Acc. QIP 129-90			General Inspection (no burrs, gatemark sunk, completely filled,)	Visual	1 part/cav	Each Set-Up	Accept / Reject	Acc. Procedure 407-90013-01: Handling of product non-conformities
											Adjust the machine setting
				-		General Inspection (no damage due to core breakage)	Gauge nr.:	1 part/cav	Each Set-Up	Accept / Reject	Acc. Procedure 407-90013-01: Handling of product non-conformities
							51-1775883-99020				Adjust the machine setting

METHOD

Action(s) when non conform

Machine,

CHARACTERISTICS

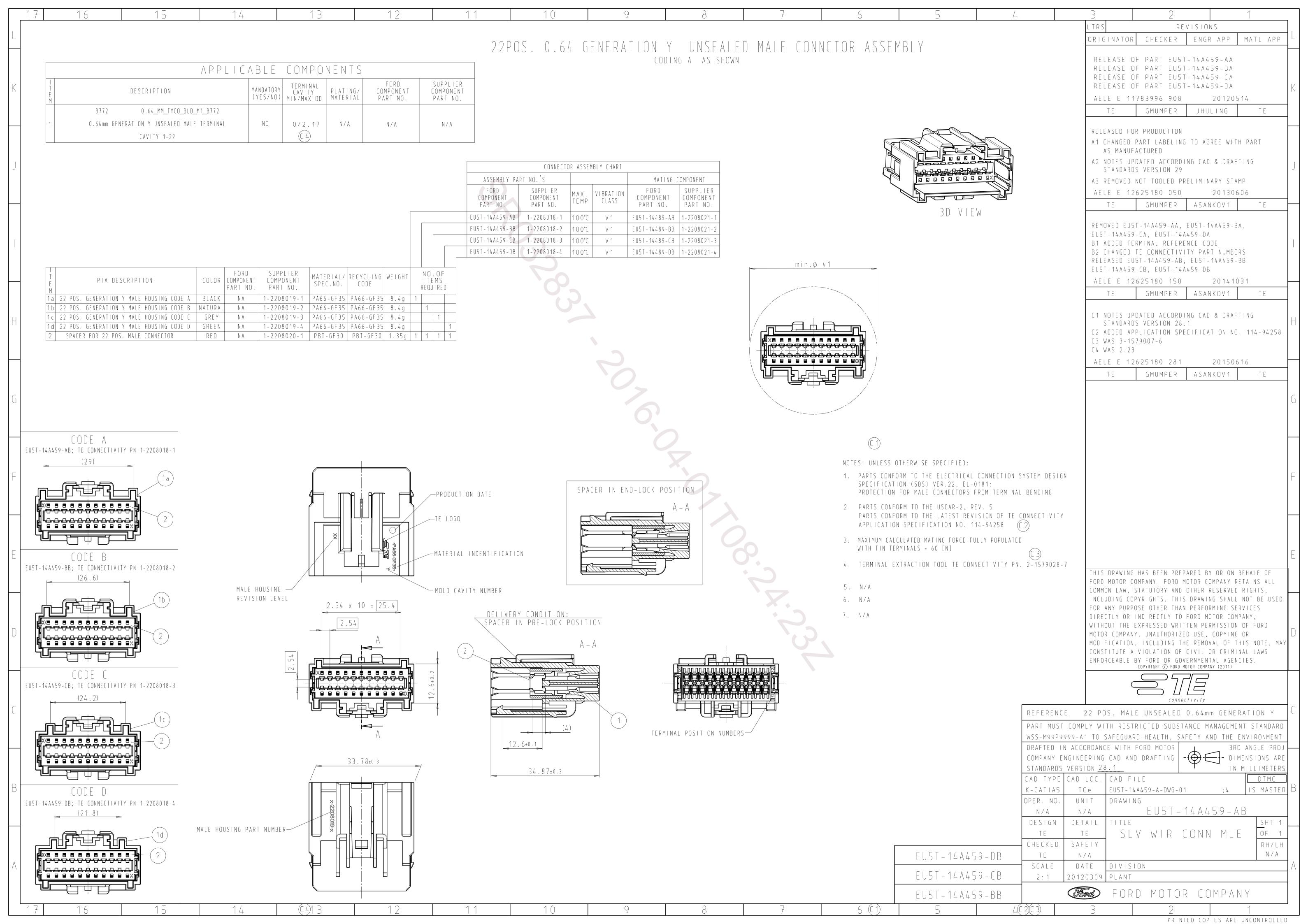
Part /	Process name /	Machine, Device, Jig,	CHARACTERIS	STICS	Spec		ME.	THOD			Action(s) when non conform
Process Number	Operation Description	Tools For Manufacturin g	Nr Product	Process	Char. Class	Product / Process Specifications & Tolerance	Evaluation Measurement Technique	Size	Frequency	Control Method	Reaction Plan
			Dimensional Inspection	-	(1) h (2) f (3) f	Housing Male: (1) Depth snap: 12,6 (2) Length: 31,3 (3) Width: 14,575 Spacer Male:	* CMM / Meas. Lab * CMM / Meas. Lab	1 part/cav	Each Set-Up	Accept / Reject	Acc. Procedure 407-90013-01: Handling of product non-conformities Adjust the machine setting
					(1) h	(1) Length: 28,94	CIVINI / INIERS. Lab				
Production M Male Housing	g & Male Spacer										
Molded parts /06	Molding (Serial Production)	Molding machine Arburg (M701) & Mold 21-1775880	-	Molding parameters		Tolerance frame on parameters	Software controlled Password protected	100%	In-line integrated	Sorting automatically	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
			Visual inspection acc. QIP / 129-90948	-		General Inspection (no burrs, gatemark sunk, completely filled,)	Visual	1 part/cav	Each 2 hours	Accept / Reject	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
				-		General Inspection (no damage due to core breakage)	Visual Gauge nr.: 51-1775883-99020	1 part /cav	Each 2 hours	Accept / Reject	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
			Dimensional Inspection	-	(1) h (2) f (3) f	Housing Male: (1) Depth snap: 12,6 (2) Length: 31,3 (3) Width: 14,575	* CMM / Meas. Lab	1 part/cav	Each 2 hours	Accept / Reject	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
				231	(1) h	Spacer Male: (1) Length: 28,94	* CMM / Meas. Lab				
			Physical properties (PBT or PET only) (Spacer Only)	70		Material Specifications (e.g. viscosity, % GF,)	Compare inspection report supplier by means of lab analysis equipment	1	1 molding area per week	Review	Acc. Procedure P407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
Molded parts /07	Molding (Serial Production) Line inspector verification, depending on Q-status operator	Molding machine Arburg (M701) & Mold 21-1775880	All operator inspections	-		See operator inspection	See operator inspection	-	Dependin g on Q- status operator	Accept / Reject	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
1.6.2 / Male GenY Pin Hsg & Spacer	Loading Parts in Gripp Male Housing & Male S										

Part /	10000							Action(s) when non conform			
Process Number	Operation Description	Tools For Manufacturin g	Nr Product	Process	Char. Class	Product / Process Specifications & Tolerance	Evaluation Measurement Technique	Size	Frequency	Control Method	Reaction Plan
1.6.2	Loading Parts in Gripper (Transport from mold towards Assy Line)	Gripper & Assy Line 51-1775883	-	Pressence of parts		All positions of gripper loaded with parts: - in end position - in straight position	Part detection in robot gripper	100%		Alarm / Line Stop in case of failure	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
	Loading Parts in Gripper (Transport from Assy Line back to mold)	Gripper & Assy Line 51-1775883	-	Absence of parts		All positions of gripper must be empty	Part detection in robot gripper	100%		Alarm / Line Stop in case of failure	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
1.6.3 / Male GenY Pin Hsg & Spacer	Laying-Off Parts in Ins Male Housing & Male S										
1.6.3	Laying-Off Parts in Inspection Station for QIP checks (see 1.6.1 Family Molding)	Gripper & Assy Line 51-1775883	-	Request QIP parts by button push		QIP parts must be requested acc. frequency mentioned in QIP	Time control	100%	In-line integrated	* Alarm if late request * Machine stop if no request	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
1.6.4 / Male GenY Pin Hsg & Spacer	Assembly Male Housing Assemb	oly									
1.6.4	22 Pos. 0.64 Male GenY Pin Housing Assy (Assembly)	Assy Line 51-1775883	Visual inspection acc. QIP / 129-90948	-		Parts not damaged	Visual	7 Parts	Each Box	See QIP / 129-90948	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
1.6.5 / Male GenY Pin Hsg & Spacer	In-Line Control Male Housing Assemb	oly			25	18-1					
1.6.5	22 Pos. 0.64 Male GenY Pin Housing Assy (In-Line Control)	Assy Line 51-1775883	GRO?	Check teststation		Teststation functions OK	Dummy parts *D1: too deep (2x) *D2: too deep (1x) *D3: not deep enough (2x) *D4: not deep enough (1x) *D5: OK part - Prelock	All dummy parts defined	Following TPM program	Accept / Reject	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
			Dimensional Inspection	-	f	Housing Assy Male: Spacer in Prelock Pos. 12,6	In-line test-equipment: 24V DC	100%	In-line integrated	Sorting automatically	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
1.6.6 / Male GenY Pin Hsg & Spacer	Packaging Male Housing Assemb	oly									

Part /	Process name /	Machine, Device, Jig,		CHARACTERI	STICS	Spec		MET	ГНОД			Action(s) when non conform
Process Number	Operation Description	Tools For Manufacturin g	Nr	Product	Process	Char. Class	Product / Process Specifications & Tolerance	Evaluation Measurement Technique	Size	Frequency	Control Method	Reaction Plan
1.6.6	22 Pos. 0.64 Male GenY Pin Housing Assy (Packaging)	Assy Line 51-1775883		Correct Packaging Materials	-		Packaging Instruction 107-90512	Visual	1	Each Box	Check	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
				Correct Label (Corresponds to contents of box)	-		Packaging Instruction 107-90512	Label scan (Corresponds to PN produced)	1	Each Box	Machine stop if scanned label does not correspond with PN produced	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
				-	Number of parts		Packaging Instruction 107-90512	Counters in packaging unit	100%	In-line integrated	Alarm if not operative	Acc. Procedure 407-90013-01: Handling of product non-conformities Acc. Procedure 102-90843: Handling of internal complaints
	Storage Male Housing Assem								1			
1.6.7	22 Pos. 0.64 Male GenY Pin Housing Assy						General instructions for internal warehousing &	. (241	-		Acc. Procedure 102-90843: Handling of internal complaints
				209	32831	.2	318-11-2	TAA: AA:				



Section 9 Dimensional Results



1-2208018-1



ORGANIZATION:

Tyco Electronics Belgium EC byba

Production Part Approval - Dimensional Results

Tyco tracking nr.: 2018-73709_24a/ 1509-YV-01

PART NUMBER:

SUPPLIER/VENDOR CODE: PART NAME: 22 POS 0.64 Male Gen Y PIN HSG Assy INSPECTION FACILITY: DESIGN RECORD CHANGE LEVEL: AELE E 12625180 281 QS **ENGINEERING CHANGE DOCUMENTS:** SPECIFICATION/ TEST QTY ORGANIZATION MEASUREMENT NOT ITEM DIMENSION/SPECIFICATION LIMITS TESTED ОК DATE RESULTS (DATA) OK Drawing EU5T-14A459-AB rev AELE E 12625180 281 2.54 x 10 = 25.4 N/A N/A Theoretical Dimension 1 N/A 2.54 2 N/A N/A N/A Theoretical Dimension 2.54 N/A N/A N/A Theoretical Dimension 3 12.6 4 ±0.2 27/06/2018 Cav.2.1 12.58 X Cav.2.2 12.54 Χ Cav.2.3 12.61 Χ Cav.2.4 12.60 Χ Cav.2.5 12.55 X Cav.2.6 12.63 Χ Cav.2.7 12.62 X Cav.2.8 12.62 Χ 5 12.6 2/06/2013 12.60...12.61 X ±0.1 Cav.2.1 12.58...12.60 X Cav.2.2 Cav.2.3 12.57...12.59 Χ Cav.2.4 12.58...12.59 Χ 12.56...12.58 Cav.2.5 Χ 12.57...12.58 Χ Cav.2.6 12.58...12.58 Cav.2.7 Χ Cav.2.8 12.57...12.58 Χ 34.87 2/06/2013 34.83...34.86 6 ±0.3 Cav.2.1 Χ 34.83...34.85 Cav.2.2 Χ Cav.2.3 34.84...34.86 Χ 34.84...34.86 Cav.2.4 Χ Cav.2.5 34.85...34.87 Χ Cav.2.6 34.86...34.87 X Cav.2.7 34.84...34.85 Х Cav.2.8 34.85...34.87 Χ 33.78 33.59...33.68 7 2/06/2013 ±0.3 Cav.2.1 Χ Cav.2.2 33.58...33.69 Χ 33.59...33.68 33.59...33.68 33.59...33.68 Cav.2.3 Χ Cav.2.4 Χ Cav.2.5 Χ 33.57...33.67 Cav.2.6 Χ 33.57...33.68 Cav.2.7 Χ 33.57...33.69 Cav.2.8 Χ 8 Min Ø 41 30/01/2017 Cav.2.1 ok Х Cav.2.2 ok Χ Cav.2.3 ok Χ Cav.2.4 ok Χ Cav.2.5 ok Χ Cav.2.6 ok Χ Cav.2.7 ok X Cav.2.8 ok Χ







Section 10 Material, Performance Test Results



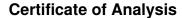
Production Part Approval -Material Test Results

Page 1 of 1 Pages

Tyco tracking nr: Tyco Electronics Belgium EC bvba PART NUMBER: 1-2208018-1 SUPPLIER/VENDOR CODE: PART NAME: 22 POS 0.64 Male Gen Y PIN HSG Assy INSPECTION FACILITY: DESIGN RECORD CHANGE LEVEL: QS ENGINEERING CHANGE DOCUMENTS: SPECIFICATION/ TEST QTY ORGANIZATION MEASUREMENT NOT ITEM DIMENSION/SPECIFICATION LIMITS DATE TESTED RESULTS (DATA) OK OK Material 1 Housing PA66- GF35 see certificate702661-1_MT Х Color:black 2 Spacer PBT-GF30 see certificate 702350-4_MT х Color: Red

Material test results

Certificate Housing 702661-1_MT







Please note that the certificates of analysis are also conveniently available online and around the clock at www.worldaccount.basf.com

Fax No 003250832450

TYCO ELECTRONICS BELGIUM EC BVBA

2018-08-24

SIEMENSLAAN 14

RBU Performance Materials Europe

8020 OOSTKAMP

EPME-Certificates@basf.com

Certificate No 1718

Page 1 of 2

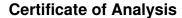
België

Inspection Certificate 3.1 according to EN 10204

ULTRAMID® A3EG7 BLACK 00564	Material	50036781
POLYAMIDE	Order	3014650615 000010
25KG PE-BAG	Delivery	3190699314 000010
Purchase Order/Customer Product#	Lot	19190467J0
2550096588	Lot/Qty	4000.000 KG
702661-1	Total	12000.000 KG
	Transport	DJE 99K8//

...... Characteristic Method Result Specification Unit Viscosity number acc.to ISO 307 (Sulfuric acid) 130 - 160 145 ml/g Moisture content acc. to ISO 15512 0,06 max.0,15 Reinforcing filler (glass / mineral) according to ISO 3451 35, 0 33, 0 - 37, 0 The above results are means of individual test values determined on samples taken during production of the lot. Dr.Axel Ebenau, inspection representative If you have any further questions please send an E-mail to:

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.







Please note that the certificates of analysis are also conveniently available online and around the clock at www.worldaccount.basf.com

Fax No 003250832450

TYCO ELECTRONICS BELGIUM EC BVBA

2018-08-24

SIEMENSLAAN 14

RBU Performance Materials Europe

8020 OOSTKAMP

Certificate No 1718

België

Page 2 of 2

Inspection Certificate 3.1 according to EN 10204

... TD 4441DO 40EOT DI 401/ 00E0

EPME-Certificates@basf.com

ULTRAMID® A3EG7 BLACK 00564	Material	50036781
POLYAMIDE	Order	3014650615 000010
25KG PE-BAG	Delivery	3190699314 000010
Purchase Order/Customer Product#	Lot	24420367J0
2550096588	Lot/Qty	8000.000 KG
702661-1	Total	12000.000 KG
	Transport	DJE 99K8//

Characteristic Method Result Specification Unit Viscosity number acc.to ISO 307 (Sulfuric acid) 130 - 160 145 ml/g Moisture content acc. to ISO 15512 0,06 max.0,15 Reinforcing filler (glass / mineral) according to ISO 3451 35, 0 33, 0 - 37, 0 The above results are means of individual test values determined on samples taken during production of the lot. Dr.Axel Ebenau, inspection representative If you have any further questions please send an E-mail to:

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

Material test results

Certificate Spacer 702350-4_MT

DINA4



Inspectie Certificaat (EN 10204-3.1)

Tyco Electronics Belgium EC BVBA Koen Vandemeulebroeke Siemenslaan 14 B-8020 OOSTKAMP

E-mail: koen.vandemeulebroeke@te.com

Bedrijf LANXESS Deutschland GmbH Kennedyplatz 1 50569 KÖLN

Datum: 26.06.2018

Artikelomschrijving

POCAN B 3235

300350

P.1000 OCTA M.BE HP W

Artikel

56430486

Klant order data

Uw order van: 2703565718 //702350-4

Goederenontvanger

3000014105 LXS c/o DSV Solutions N.V.

22.06.2018

Uw produktnr.

702350-4

Leveringsgegevens

Leveringsnr.

3015660381 / 000010

Gelev. hoev 8.000,000 KG Geplande Leveringsdatum

Ordernr.

3032032719 / 000010

Charge

Gelev. hoev

De toetsingen werden specifiek voor het geleverde materiaal uitgevoerd.

0000791007 8.000,000 KG

Inspectiemethode/ Karakteristiek	Resultaat	Specificatie	Eenheid
1) ISO 180/1U			
alU (23 °C)	58,0	>= 35,0	kJ/m²
2) DIN 6174 color difference CIELAB			
Delta L	-0,45		
Delta a	0,54		
Delta b	0,77		
Delta E	1,05		
3) Calc. from ash (sim. to ISO 3451-1/A)			
Glass fibre content	30,4	27,0 - 33,0	%
4) Sim. to DIN EN ISO 1133-1			
MVR 260°C; 2,16kg	14,4	10,0 - 21,0	cm ³ /10

Inspectie Certificaat (EN 10204-3.1)



Contact for inqiries regarding this Certificate of Analysis:

Mr. Michael Weber Mail: michael.weber@lanxess.com

The data presented above relate to characteristics.

They do not represent any assurance or warranty.

This information does not release the customer from the obligation to carry out incoming inspections of goods, either as agreed or as required under the regulations.

This information has been issued by computer and is valid without signature.

Authorized inspection representative: Dr. Dietmar Klein



Section 12 **Qualified Laboratory Documentation**



CERTIFICATE



This is to certify that

Tyco Electronics Belgium EC N.V.

Siemenslaan 14 8020 Oostkamp Belgium

has implemented and maintains a Quality Management System.

Scope:

Design and manufacturing of electronic and mechatronic components and connector systems

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

IATF 16949:2016

(with product design)

Certificate registration no.

515109 IATF16

Main certificate registration no.

515099 IATF16

Issuing date

2017-12-04

This certificate is valid until

2020-12-03

IATF No.

0280557

2-IAO-QMC-01001

For and on behalf of DQS

Frank Graichen

Managing Director, DQS GmbH

Michael Drechsel

Managing Director, DQS Holding GmbH

pleceliel



Annex to certificate registration no.: 515109 IATF16

IATF-No.: 0280557

Tyco Electronics Belgium EC N.V.

Siemenslaan 14 8020 Oostkamp Belgium



Remote Location

Scope

TE Connectivity Solutions GmbH Amperestr. 3 9323 Steinach Switzerland

Logistics

515101

TE Connectivity Germany GmbH Tempelhofer Weg 62 12347 Berlin Germany

Sales

515099

TE Connectivity Germany GmbH Amperestr. 12-14 64625 Bensheim Germany

Continuous Improvement, Internal Audit Management, Production Equipment Development, Purchasing, Supplier Management, Customer Service, Management Review, Process Design, Quality System Management, Human resource, Policy making, Product Design, Sales

515116

TE Connectivity Germany GmbH Amperestr. 12-14 73499 Wört Germany

Process Design

515902

TE Connectivity Germany GmbH Amperestr. 12-14 73499 Wört Germany

Warehousing



Annex to certificate registration no.: 515109 IATF16

IATF-No.: 0280557

Tyco Electronics Belgium EC N.V.

Siemenslaan 14 8020 Oostkamp Belgium



Remote Location

Scope

515103

TE Connectivity Germany GmbH Amperestr. 11 91550 Dinkelsbühl Germany

Production Equipment Development, Process Design

515110

Tyco Electronics France SAS 1 rue Ampère 95300 Pontoise France

Sales

515514

Tyco Electronics AMP Italia S.r.I. Corso Fratelli Cervi 15 10093 COLLEGNO TORINO Italy

Sales

515115

TE Connectivity Morocco Lot 43 A, Tangier Free Zone 90 000 Tangier Morocco

Warehousing

525515

TE Connectivity Tunisia office Immeuble Lake Forum, 4 ème étage 5 rue de la feuille d'érable 1053 Tunis Tunisia

Warehousing



Section 18 Part Submission Warrant



_		oon anound	d male conn. As	sy Cust. Par	t Number	EU5T-14A459	-AD
Shown on Drawi	ng Number	EU5T-	14A459-AB	Org.Par	t Number	1-2208018-	1
Engineering Cha	ange Level	AELE	E 12625180 281		Dated	16/06/2015	j
Additional Engin	eering Changes				Dated		
Safety and/or Go	overnment Regula	tion Yes	S No	Purchase Order No	D	Weight (kg)	0.0092
Checking Aid Nu	ımber	Che	cking Aid Engineering	Change Level		Dated	
ORGANIZATIO	ON MANUFACT	URING INFORM	ATION	CUSTOMER	SUBMITTAL	INFORMATION	
	vity Belgium I me and Supplier 0		0 654 167	Customer Nar		o Donanimlari	
Siemenslaan	14						
Street Address				Buyer/Buyer C	ode		
Oostkamp		8020	Belgium		F	ord	
City	Region	Postal Code	Country	Application			
MATERIALS RE Has customer-re	quired Substance	of Concern information	ation been reported customer format 5	✓ Yes 17259871/5	☐ No	☐ n/a	
	arts identified with	appropriate ISO ma	arking codes?	Yes	□ No	√ n/a	
✓ Initial sul						ional Construction o	
	ring Change(s)	mont Boturhighma	ant or additional			or Material Source C	hange
	on of Discrepancy	ement, Refurbishme	ent, or additional	님	Change in Par	t Processing d at Additional Local	tion
	nactive > than 1 y			H	Other - please		
	JBMISSION LEVE		opearance items, an A	nnearance Annroval	Report) submitte	ed to customer	
Level 1 - Level 2 - Level 3 - Level 4 - Level 5 - SuBMISSION RI The results for These results me Mold / Cavity / Proc DECLARATION affirm that the s Approval Proces: also certify that below.	Warrant only (and Warrant with processing to the work) Warrant with processing the work warrant wa	d for designated ap duct samples and li duct samples and c er requirements as duct samples and c and measurement and requirements: Family Moulding ed by this warrant a on Requirements.	ppearance items, an A imited supporting data complete supporting didefined by customer. complete supporting didefined by research and function of the complete supporting didefined by research and functions are representative of color of the color of th	a submitted to custon at a submitted to custon at a reviewed at supportional tests apportional tests	ner. comer. lier's manufactur cearance criteria ation Required) + Assembly made by a proceedured at the processory	ing location. statistical process that meets all Production rate of 9200	roduction Part
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