YAZAKI **Part Submission Warrant** DaimlerChrysler Ford General Motors SLV ASY WIR CONN FEM GU5T14A464CB000 Part Name Cust. Part Number GU5T-14A464-CB Org. Part Number Shown on Drawing No. 7289-4602-30 F11 / AELE-E-11784007-438 22-06-2017 Engineering Change Level Dated Additional Engineering Changes N/A N/A Safety and/or Government Regulation Yes V No Purchase Order No. Weight (kg) 0,0068 N/A N/A Checking Aid No. Checking Aid Engineering Change Level N/A Dated ORGANIZATION MANUFACTURING INFORMATION **CUSTOMER SUBMITTAL INFORMATION** YAZAKI EUROPE LTD 323047696 Nursan Organization Name & Supplier/Vendor Code Robert Bosch Strasse., 43 Buyer/Buyer Code NRW D-50769 Cologne Germany **FORD** Region Postal Code Country MATERIALS REPORTING ✓ Yes ☐ No n/a Has customer-required Substances of Concern information been reported? **IMDS** Submitted by IMDS or other customer format: IMDS ID: 739044397 / 2 Are polymeric parts identified with appropriate ISO marking codes? Yes ☐ No ✓ n/a REASON FOR SUBMISSION (Check at least one) Initial submission Change to Optional Construction or Material Engineering Change(s) Supplier or Material Source Change Tooling: Transfer, Replacement, Refurbishment, or additional Change in Part Processing Parts produced at Additional Location Correction of Discrepancy Tooling Inactive > than 1 year Other - please specify below Customer Request REQUESTED SUBMISSION LEVEL (Check one) Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer. Level 2 - Warrant with product samples and limited supporting data submitted to customer. Level 3 - Warrant with product samples and complete supporting data submitted to customer. Level 4 - Warrant and other requirements as defined by customer Level 5 - Warrant with product samples and complete supporting data reviewed at organization's manufacturing location. SUBMISSION RESULTS material and functional tests

Yes The results for dimensional measurements appearance criteria statistical process package NO (If "NO" - Explanation Required) These results meet all drawing and specification requirements: Mold / Cavity / Production Process Y-1 / assembly I affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of 1173 / 8 hours. I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below. EXPLANATION/COMMENTS: Is each Customer Tool properly tagged and numbered? No Yes √ n/a Date __ 20 June 2022 Organization Authorized Signature Maine Cirqueira Phone No. **+351 256 246 764** Print Name Maine Cirqueira FAX No.

E-mail maine.cirqueira@yazaki-europe.com

Customer Tracking No. (optional)

Date

FOR CUSTOMER USE ONLY (IF APPLICABLE)

Other

Rejected

QΕ

Customer Signature

Print Name

PPAP Warrant Disposition:

Approved

Title



INSP. FACILITY/PLANTA DE INSP.:

Nº. OF CAVITIES/No DE CAVIDAD:

SUPPLIER/PROVEEDOR:

ENG.LEVEL/NIVEL DE ING.:

DRAWING/PLANO: DIE No./No. DE DADO-MOLDE:

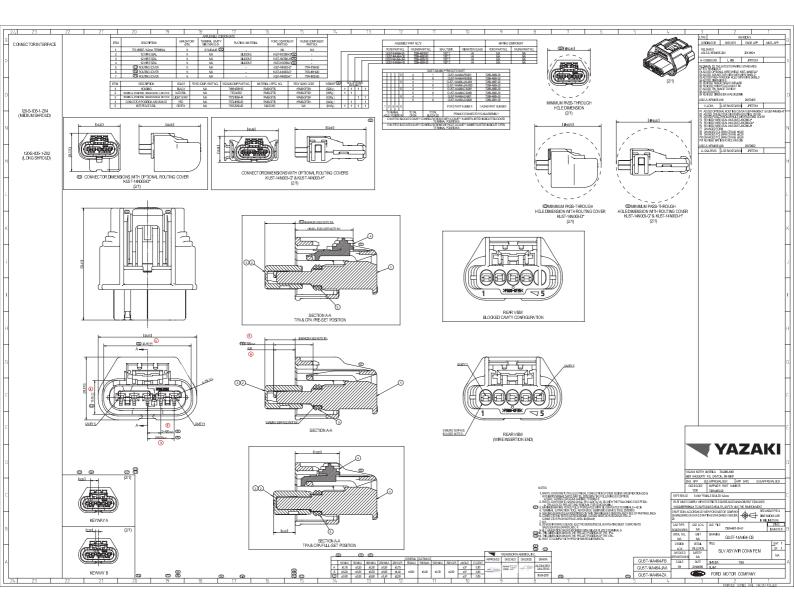
Production Part Approval Dimensional Results

YCC
YCC
F11
8 OF 8
CUSTOMER FORD
Y-1

Partes Aprobadas de Producción Resultados Dimensionales

YCC CONTROL NUMBER:	2109-5172
CUSTOMER PART No./No. PARTE DEL CLIENTE:	GU5T-14A464-CB-000
YAZAKI PART No./No. PARTE YAZAKI:	7289-4602-30
PART NAME/NOMBRE DE PARTE:	SLV ASY
WID	CONN EEM

	ITEM No/	SPEC / ESPECIFICA					SUPPLIER MEASUREMENT/RESULTADOS DIMENSIONALES.				Date/	Inspect by/	Equipo/	Dev./	OK	NOT C		
	DIM. No.	DIMENSION	- TOL.	+ TOL.	CAV. 1	CAV.2	CAV. 3	CAV. 4	CAV. 5	CAV. 6	CAV. 7	CAV. 8	Fecha	Inspec. Por	Equipment/	Des.		NG
1		26.15	0.15	0.20	26.24	26.25	26.25	26.23	26.24	26.25	26.25	26.24	10/03/21	J CORPUS	SS-ACC015		*	
2	2	4.00	0.15	0.15	3.98	3.99	4.02	3.99	3.98	3.98	4.00	3.98	10/03/21	J CORPUS	SS-ACC015		*	
	4				4.02	3.98	3.99	3.99	3.99	3.99	3.97	4.00	10/03/21	J CORPUS	SS-ACC015		*	
3	1	8.00	0.15	0.15	7.96	7.97	8.03	8.03	8.05	7.98	8.05	7.96	10/03/21	J CORPUS	SS-ACC015		*	
	5				8.04	8.02	7.96	7.97	7.98	8.05	7.95	8.05	10/03/21	J CORPUS	SS-ACC015		*	
4	MAX	10.15	0.15	0.20	10.13	10.11	10.11	10.09	10.11	10.08	10.06	10.13	10/03/21	J CORPUS	SS-ACC015		*	
	MIN				10.06	10.06	10.05	10.06	10.05	10.00	10.02	10.07	10/03/21	J CORPUS	SS-ACC015		*	
5		11.85	0.15	0.15	11.84	11.80	11.81	11.85	11.85	11.82	11.82	11.85	10/03/21	J CORPUS	SS-ACC015		*	
6	L	6.50	0.30	0.30	6.53	6.50	6.50	6.52	6.52	6.52	6.50	6.51	10/03/21	J CORPUS	SS-ACC015		*	
	R				6.52	6.52	6.51	6.51	6.51	6.50	6.52	6.53	10/03/21	J CORPUS	SS-ACC015		*	
				I	I	I	1	I	I	I	l	I	l					
				Λ	1.1	NO	LEG	۸D		0	MD	LIAN	ICE					
				A			LS	AN			IVIT	LIAN						
				1	L	l	1			L		1						
No	otes/Notas:																	
_									AL									-
_																		•
				Reviev	w By/ Revi	sado Por:			J CORPU	s								
					•							-						
				Approved	By /Anrol	nado Por			E CARMO	NΔ								
				, white	by impioi	Judo 1 01.			- 3/11/11/0	17-1		-						



32K1 ADD004

BILL OF MATERIAL INQUIRY

21/09/28 10:47:52

	TEM : 7289-4602-30	CII		ECN :	:	F1:ECN	INQUI	RY	
FUN :	_ 5P 1.2MM SEALED FEMALE					QUANTITY	шом	DATE	
LEVEL SF	CHILD ITEM	-	0	DEP	LIN	ŘĚQUIRED	UOM	EFFEC.	DISC.
01	BOXCOR007 CAJA 15"1/16X10"1/4 14"9			PUR	CMP	000.00093	EA	150706	000000
01	LAB-PAP-001 ETIQUETA PARA CAJA			PUR	CMP	000.00093	EA	150706	000000
01	PAD-CHP-003 SEPARADOR 14 X 10 IN	7	2	PUR	CMP	000.00926	EA	150706	000000
01	PAR-CHP-006 14 1/4X9 7/8X1 1/2 60C (CHP	P			000.00833			000000
01	TAP-PLA-001 SHUR TAPE 2"X100 M			PUR	_	000.00139	_		000000
01	7137-3012-60 5P 1.2MM INTERFACE SEAL			PUR	_	001.00000			000000
01	7172-1063 5P 1.2MM SEALED FEMALE		3	F00	G03	001.00000	EA	150706	000000

FUN = 'BLANK' DISPLAYS ACTIVE ITEM ONLY ALL: DISPLAY ALL ITEM ROLL CMD3: END CMD7: WHERE USED INQUIRY

32K1 ADD004

BILL OF MATERIAL INQUIRY

21/09/28 10:47:52

	ΓΕΜ : <u>7289-4602-30</u>		:	F1:ECN IN	QUIRY	
FUN :	_ 5P 1.2MM SEALED FEMALE S	UB-ASS		OLIANITTT\/	DATE	DATE
LEVEL SF	CHILD ITEM	T O DEP	LIN	QUANTITY REQUIRED U	OM EFFEC.	DATE DISC.
02	BAG-PLA-008 70X80 CM BOLSA DE PLASTIC		CMP	000.00093 E	A 150413	000000
02	CONPLA002 CONT PLAS NO 2 (48X38X20)		CMP	000.00093 E	A 150413	000000
02		4 2 PUR	CMP	000.00189 K	G 150413	000000
01	7172-1065-50 5P 1.2MM SEALED FEMALE CP	3 3 F00	G05	001.00000 E	A 150706	000000
02		7 2 PUR	CMP	000.09259 E	A 150404	000000
02		7 2 PUR	CMP	000.09259 E	A 150404	000000
02	854340131086 NY 66N ZYTEL 70G35HSL NC0	3 3 F00	CMP	000.00092 K	G 150404	000000

FUN = 'BLANK' DISPLAYS ACTIVE ITEM ONLY ALL: DISPLAY ALL ITEM
ROLL CMD3: END CMD7: WHERE USED INQUIRY

32K1 ADD004

BILL OF MATERIAL INQUIRY

21/09/28 10:47:52

ECN: ___ F1:ECN INQUIRY PARENT ITEM: 7289-4602-30 5P 1.2MM SEALED FEMALE SUB-ASS OUANTITY DATE DATE REQUIRED UOM LEVEL SF CHILD ITEM T O DEP LIN EFFEC. DISC. 85434013 4 2 PUR CMP 150227 000000 03 000.98000 **KG** NY 66N ZYTEL 70G35HSL NC010 NA 03 87091086 4 2 PUR CMP 000.02000 KG 150227 000000 CNY12050 REDLITE RED 7189-4599-30 3 3 F00 G05 01 001.00000 EA 150706 000000 5P 1.2MM SEALED FEMALE HOUSING 02 7 2 PUR CMP BAG-PLA-008 000.09259 **EA** 150404 000000 70X80 CM BOLSA DE PLASTICO NAT 7 2 PUR CMP 02 CONPLA002 000.09259 **EA** 150404 000000 CONT PLAS NO 2 (48X38X20)CM 4 2 PUR CMP 02 85434017 000.00656 **KG** 150404 000000 NY 66N ZYTEL 70G35HSLRA4 BK267

FUN = 'BLANK' DISPLAYS ACTIVE ITEM ONLY ALL: DISPLAY ALL ITEM ROLL CMD3: END CMD7: WHERE USED INQUIRY

Letter 1 of 1 Page 1 of 14



August 31, 2021

AUTOCONECTORES DE CHIHUAHUA ELCOM S. DE RL. DE C.V. ISHIKAWA NO. 1400 PARQU QUALITY ASSURANCE PARQUE INDUSTRIAL SUPRA Chihuahua - CHI 31137

40UPONT

DU PONT ORDER NO: 2501060770
CUSTOMER PO NO: K1210011992
DELIVERY DATE: 08/31/21
DELIVERY NO: 7802265892
FAX NUMBER:

THIS IS TO ADVISE THAT THE PRODUCT LISTED BELOW HAS BEEN CLASSIFIED STANDARD PRODUCT. TEST DATA ARE ATTACHED WHICH SHOW COMPLIANCE TO THE INDICATED SPECIFICATION.

QUALITY ASSURANCE MANAGER

PRODUCT(S)	LOT(S)	_QTY_ Kgs	<u>Lbs</u>	SPECIFICATION(S)
ZYTEL® 70G35HSL NC010 25 KG BAG CPN:85434013	N59UHEK101	25.00	55.10	DU PONT STD SPEC YAZAKI YPES-25-02-513
	N59ULH4101	75.00	165.30	11 L3-23-02-010
	N59VDJM101	200.00	440.80	
	N59VEKA101	1500.00	3306.00	
	N59VFKS101	2775.00	6116.10	

DU PONT ORDER NO: 2501060770 Page 2 of 14

PRODUCT(S)	LOT(S)	QTY	, -	SPECIFICATION(S)
		<u>Kgs</u>	Lbs	
	N59VFL8101	4425.00	9752.70	

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

LIMITS

<u> </u>						
TEST METHOD	MIN	MAX	RESULTS			
		LOT NO: N	59UHEK101			
ISO 3451/1	33.0	37.0	35.0			
ISO 11443	120	220	219			
ISO 15512		0.18	0.08			
		LAST TEST	DATE: December 2020			
ISO 75-1&2			254			
ISO 1183/Method A			1.41			
ISO 179/1eA			13.5			
ISO 11357			261			
ISO 527-1&2			11300			
ISO 527			205			
	TEST METHOD ISO 3451/1 ISO 11443 ISO 15512 ISO 75-1&2 ISO 1183/Method A ISO 179/1eA ISO 11357 ISO 527-1&2 ISO 527	ISO 3451/1 33.0 ISO 11443 120 ISO 15512 ISO 75-1&2 ISO 1183/Method A ISO 179/1eA ISO 11357 ISO 527-1&2	LOT NO: NS ISO 3451/1 33.0 37.0 ISO 11443 120 220 ISO 15512 0.18 LAST TEST ISO 75-1&2 ISO 1183/Method A ISO 179/1eA ISO 11357 ISO 527-1&2			

Page 4 of 14

DU PONT STANDARD SPECIFICATION

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

	<u>=</u>		
TEST METHOD	MIN	MAX	RESULTS
		LOT NO: N	N59ULH4101
ISO 3451/1	33.0	37.0	34.6
ISO 11443	120	220	210
ISO 15512		0.18	0.03
		LAST TES	ST DATE: December 2020
ISO 75-1&2			254
ISO 1183/Method A			1.41
ISO 179/1eA			13.5
ISO 11357			261
ISO 527-1&2			11300
ISO 527			205
	ISO 3451/1 ISO 11443 ISO 15512 ISO 75-1&2 ISO 1183/Method A ISO 179/1eA ISO 11357 ISO 527-1&2	ISO 3451/1 33.0 ISO 11443 120 ISO 15512 ISO 75-1&2 ISO 179/1eA ISO 11357 ISO 527-1&2	LOT NO: II ISO 3451/1 33.0 37.0 ISO 11443 120 220 ISO 15512 0.18 LAST TES ISO 75-1&2 ISO 179/1eA ISO 11357 ISO 527-1&2

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

LIMITS

TESTS	TEST METHOD	MIN	MAX	RESULTS
LOT TEST			LOT NO: N	N59VDJM101
Ash Content %	ISO 3451/1	33.0	37.0	35.3
Melt Viscosity, Pa.s	ISO 11443	120	220	211
Water Content at Packout, %	ISO 15512		0.18	0.07
PERIODIC TEST			LAST TES	T DATE: December 2020
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2			254
Density, g/cm3	ISO 1183/Method A			1.41
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA			13.5
Temp of melting,2nd melt,10°C/min °C	ISO 11357			261
Tensile Modulus, Mpa	ISO 527-1&2			11300
Tensile Stress @ Break, 5mm/min, MPa	ISO 527			205

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

LIMITS

TESTS	TEST METHOD	MIN	MAX	RESULTS
LOT TEST			LOT NO: N	N59VEKA101
Ash Content %	ISO 3451/1	33.0	37.0	35.1
Melt Viscosity, Pa.s	ISO 11443	120	220	200
Water Content at Packout, %	ISO 15512		0.18	0.04
PERIODIC TEST			LAST TES	T DATE: December 2020
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2			254
Density, g/cm3	ISO 1183/Method A			1.41
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA			13.5
Temp of melting,2nd melt,10°C/min °C	ISO 11357			261
Tensile Modulus, Mpa	ISO 527-1&2			11300
Tensile Stress @ Break, 5mm/min, MPa	ISO 527			205

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

LIMITS

TESTS	TEST METHOD	MIN	MAX	RESULTS
LOT TEST			LOT NO: N	N59VFKS101
Ash Content %	ISO 3451/1	33.0	37.0	34.9
Melt Viscosity, Pa.s	ISO 11443	120	220	217
Water Content at Packout, %	ISO 15512		0.18	0.03
PERIODIC TEST			LAST TES	T DATE: December 2020
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2			254
Density, g/cm3	ISO 1183/Method A			1.41
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA			13.5
Temp of melting,2nd melt,10°C/min °C	ISO 11357			261
Tensile Modulus, Mpa	ISO 527-1&2			11300
Tensile Stress @ Break, 5mm/min, MPa	ISO 527			205

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

LIMITS

TEST METHOD	MIN	MAX	RESULTS	
		LOT NO: N	59VFL8101	
ISO 3451/1	33.0	37.0	34.6	
ISO 11443	120	220	215	
ISO 15512		0.18	0.03	
		LAST TES	T DATE: December 2020	
ISO 75-1&2			254	
ISO 1183/Method A			1.41	
ISO 179/1eA			13.5	
ISO 11357			261	
ISO 527-1&2			11300	
ISO 527			205	
	ISO 3451/1 ISO 11443 ISO 15512 ISO 75-1&2 ISO 1183/Method A ISO 179/1eA ISO 11357 ISO 527-1&2	ISO 3451/1 33.0 ISO 11443 120 ISO 15512 ISO 75-1&2 ISO 1183/Method A ISO 179/1eA ISO 11357 ISO 527-1&2	TEST METHOD MIN MAX LOT NO: N ISO 3451/1 33.0 37.0 ISO 11443 120 220 ISO 15512 0.18 LAST TEST ISO 75-1&2 ISO 1183/Method A ISO 179/1eA ISO 11357 ISO 527-1&2	

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

Specification: YAZAKI YPES-25-02-513

		LIN	<u>IITS</u>		
TESTS	TEST METHOD	MIN	MAX	RESULT	S
LOT TEST			LOT NO: N	N59UHEK101	
Ash Content %	ISO 3451/1	33.0	37.0	35.0	
Melt Viscosity, Pa.s	ISO 11443	120	220	219	(01)
Water Content at Packout, %	ISO 15512		0.20	0.08	
PERIODIC TEST			LAST TES	T DATE: Decen	nber 2020
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2	245		254	
Density, g/cm3	ISO 1183/Method A	1.35	1.45	1.41	
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA	9.0		13.5	
Temp of melting,2nd melt,10°C/min °C	ISO 11357	250	265	261	
Tensile Modulus, Mpa	ISO 527-1&2	9000		11300	
Tensile Stress @ Break, 5mm/min, MPa	ISO 527	180		205	

(01) PERFORMED AT 280 DEGREES C WITH A SHEAR RATE OF 1000/SE C AND A DWELL TIME OF 300 SEC. USING AN ORIFICE WITH AN L/D RATIO OF 20:1 AND AN ENTRANCE ANGLE OF 120 DEGREES. RESULTS ARE CORRECTED TO A MOISTURE CONTENT OF 0.13%.

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

Specification: YAZAKI YPES-25-02-513

		LIM	<u>IITS</u>		
TESTS	TEST METHOD	MIN	MAX	RESULT	S
LOT TEST			LOT NO: N	N59ULH4101	
Ash Content %	ISO 3451/1	33.0	37.0	34.6	
Melt Viscosity, Pa.s	ISO 11443	120	220	210	(01)
Water Content at Packout, %	ISO 15512		0.20	0.03	
PERIODIC TEST			LAST TES	T DATE: Decen	nber 2020
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2	245		254	
Density, g/cm3	ISO 1183/Method A	1.35	1.45	1.41	
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA	9.0		13.5	
Temp of melting,2nd melt,10°C/min °C	ISO 11357	250	265	261	
Tensile Modulus, Mpa	ISO 527-1&2	9000		11300	
Tensile Stress @ Break, 5mm/min, MPa	ISO 527	180		205	

(01) PERFORMED AT 280 DEGREES C WITH A SHEAR RATE OF 1000/SE C AND A DWELL TIME OF 300 SEC. USING AN ORIFICE WITH AN L/D RATIO OF 20:1 AND AN ENTRANCE ANGLE OF 120 DEGREES. RESULTS ARE CORRECTED TO A MOISTURE CONTENT OF 0.13%.

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

Specification: YAZAKI YPES-25-02-513

		LIM	IITS		
TESTS	TEST METHOD	MIN	MAX	RESULT	S
LOT TEST			LOT NO: N	N59VDJM101	
Ash Content %	ISO 3451/1	33.0	37.0	35.3	
Melt Viscosity, Pa.s	ISO 11443	120	220	211	(01)
Water Content at Packout, %	ISO 15512		0.20	0.07	
PERIODIC TEST			LAST TES	T DATE: Decen	nber 2020
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2	245		254	
Density, g/cm3	ISO 1183/Method A	1.35	1.45	1.41	
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA	9.0		13.5	
Temp of melting,2nd melt,10°C/min °C	ISO 11357	250	265	261	
Tensile Modulus, Mpa	ISO 527-1&2	9000		11300	
Tensile Stress @ Break, 5mm/min, MPa	ISO 527	180		205	

(01) PERFORMED AT 280 DEGREES C WITH A SHEAR RATE OF 1000/SE C AND A DWELL TIME OF 300 SEC. USING AN ORIFICE WITH AN L/D RATIO OF 20:1 AND AN ENTRANCE ANGLE OF 120 DEGREES. RESULTS ARE CORRECTED TO A MOISTURE CONTENT OF 0.13%.

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

Specification: YAZAKI YPES-25-02-513

		LIN	<u>IITS</u>		
TESTS	TEST METHOD	MIN	MAX	RESULT	rs
LOT TEST			LOT NO: N	N59VEKA101	
Ash Content %	ISO 3451/1	33.0	37.0	35.1	
Melt Viscosity, Pa.s	ISO 11443	120	220	200	(01)
Water Content at Packout, %	ISO 15512		0.20	0.04	
PERIODIC TEST			LAST TES	ST DATE: Decer	mber 2020
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2	245		254	
Density, g/cm3	ISO 1183/Method A	1.35	1.45	1.41	
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA	9.0		13.5	
Temp of melting,2nd melt,10°C/min °C	ISO 11357	250	265	261	
Tensile Modulus, Mpa	ISO 527-1&2	9000		11300	
Tensile Stress @ Break, 5mm/min, MPa	ISO 527	180		205	

(01) PERFORMED AT 280 DEGREES C WITH A SHEAR RATE OF 1000/SE C AND A DWELL TIME OF 300 SEC. USING AN ORIFICE WITH AN L/D RATIO OF 20:1 AND AN ENTRANCE ANGLE OF 120 DEGREES. RESULTS ARE CORRECTED TO A MOISTURE CONTENT OF 0.13%.

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

Specification: YAZAKI YPES-25-02-513

		LIN	<u>IITS</u>		
TESTS	TEST METHOD	MIN	MAX	RESULT	S
LOT_TEST			LOT NO: N	N59VFKS101	
Ash Content %	ISO 3451/1	33.0	37.0	34.9	
Melt Viscosity, Pa.s	ISO 11443	120	220	217	(01)
Water Content at Packout, %	ISO 15512		0.20	0.03	
PERIODIC TEST			LAST TES	T DATE: Decen	nber 2020
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2	245		254	
Density, g/cm3	ISO 1183/Method A	1.35	1.45	1.41	
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA	9.0		13.5	
Temp of melting,2nd melt,10°C/min °C	ISO 11357	250	265	261	
Tensile Modulus, Mpa	ISO 527-1&2	9000		11300	
Tensile Stress @ Break, 5mm/min, MPa	ISO 527	180		205	

(01) PERFORMED AT 280 DEGREES C WITH A SHEAR RATE OF 1000/SE C AND A DWELL TIME OF 300 SEC. USING AN ORIFICE WITH AN L/D RATIO OF 20:1 AND AN ENTRANCE ANGLE OF 120 DEGREES. RESULTS ARE CORRECTED TO A MOISTURE CONTENT OF 0.13%.

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

Specification: YAZAKI YPES-25-02-513

		LIM	<u>IITS</u>		
TESTS	TEST METHOD	MIN	MAX	RESULT	S
LOT TEST			LOT NO: N	N59VFL8101	
Ash Content %	ISO 3451/1	33.0	37.0	34.6	
Melt Viscosity, Pa.s	ISO 11443	120	220	215	(01)
Water Content at Packout, %	ISO 15512		0.20	0.03	
PERIODIC TEST			LAST TES	T DATE: Decen	nber 2020
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2	245		254	
Density, g/cm3	ISO 1183/Method A	1.35	1.45	1.41	
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA	9.0		13.5	
Temp of melting,2nd melt,10°C/min °C	ISO 11357	250	265	261	
Tensile Modulus, Mpa	ISO 527-1&2	9000		11300	
Tensile Stress @ Break, 5mm/min, MPa	ISO 527	180		205	

(01) PERFORMED AT 280 DEGREES C WITH A SHEAR RATE OF 1000/SE C AND A DWELL TIME OF 300 SEC. USING AN ORIFICE WITH AN L/D RATIO OF 20:1 AND AN ENTRANCE ANGLE OF 120 DEGREES. RESULTS ARE CORRECTED TO A MOISTURE CONTENT OF 0.13%.

Avient Colorants USA LLC 926 Elliot Road Albion, MI, 49224



ELCOM INC 20 BUTTERFIELD TRAIL BLVD EL PASO TX 79906-5246

Certificate of Analysis

Date: 09/16/2021

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Your order from 08/16/2021

Order No.

: K1210012131

Material No.

: 87091086

Delivery no./Pos. : 52931065 / 900001

Order

: 15210685

Material

: REEDLITE RED NY

Material-no.

Old Material No. : CNY12050

Batch No.

: AB3UFF

: USPC052276

Quantity

: 45.360 KG

On the batch, of which the consignment is a part, the following values were

determined.

Inspection characteristic/-method

Specification

Result

COLOR - VISUAL

CONTAMINATION - VISUAL

PELLET COUNT

64 Pel./g

PELLET LENGTH

0.090 IN

PELLET DIAMETER

0.100 IN

Let Down Ratio (%)

2

This report does not require a signature.

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September 03, 2021

AUTOCONECTORES DE CHIHUAHUA ELCOM S. DE RL. DE C.V. ISHIKAWA NO. 1400 PARQU QUALITY ASSURANCE PARQUE INDUSTRIAL SUPRA Chihuahua - CHI 31137

40UPONT

DU PONT ORDER NO: 2501095640
CUSTOMER PO NO: K1210012316
DELIVERY DATE: 09/04/21
DELIVERY NO: 7802282771
FAX NUMBER:

THIS IS TO ADVISE THAT THE PRODUCT LISTED BELOW HAS BEEN CLASSIFIED STANDARD PRODUCT. TEST DATA ARE ATTACHED WHICH SHOW COMPLIANCE TO THE INDICATED SPECIFICATION.

QUALITY ASSURANCE MANAGER

PRODUCT(S)	LOT(S)	_QTY_ Kgs	<u>Lbs</u>	SPECIFICATION(S)
ZYTEL® ZYT70G35HSLRA4 BK267 25 KG BAG CPN:85434017	N89VF7I201	3000.00	6612.00	DU PONT STD SPEC
	N89VF8D301	10000.00	22040.00	
	N89VG9N301	3000.00	6612.00	
	N89VHA1301	2000.00	4408.00	

Product: ZYTEL® ZYT70G35HSLRA4 BK267 25 KG BAG

LIMITS

TESTS	TEST METHOD	MIN	MAX	RESULTS	;
LOT TEST			LOT NO: N	N89VF7I201	
Ash Content %	ISO 3451/1	33	37	35	
Melt Viscosity, Pa.s	ISO 11443	90	190	125	
Water Content at Packout, %	ISO 15512		0.18	0.09	

Product: ZYTEL® ZYT70G35HSLRA4 BK267 25 KG BAG

LIMITS

TESTS	TEST METHOD	MIN	MAX	RESULTS	
LOT TEST			LOT NO: N	189VF8D301	
Ash Content %	ISO 3451/1	33	37	35	
Melt Viscosity, Pa.s	ISO 11443	90	190	141	
Water Content at Packout, %	ISO 15512		0.18	0.10	
Ash Content % Melt Viscosity, Pa.s	ISO 11443		37 190	35 141	

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DU PONT STANDARD SPECIFICATION

Product: ZYTEL® ZYT70G35HSLRA4 BK267 25 KG BAG

LIMITS

TESTS	TEST METHOD	MIN	MAX	RESULTS	
LOT TEST			LOT NO: N	189VG9N301	
Ash Content %	ISO 3451/1	33	37	35	
Melt Viscosity, Pa.s	ISO 11443	90	190	135	
Water Content at Packout, %	ISO 15512		0.18	0.08	

Product: ZYTEL® ZYT70G35HSLRA4 BK267 25 KG BAG

LIMITS

TESTS	TEST METHOD	MIN	MAX	RESULTS	
LOT TEST			LOT NO: N	189VHA1301	
Ash Content %	ISO 3451/1	33	37	35	
Melt Viscosity, Pa.s	ISO 11443	90	190	142	
Water Content at Packout, %	ISO 15512		0.18	0.08	