DaimlerChrysler Ford General Motors

# **Part Submission Warrant**



Part Name 1.5mm FEMALE MAT SEAL CAVITY PLUG				Cust.	Part Number		LU5T-14A666-BPA			
Shown on Drawing No. LU5T-14A666-BPA				Org. F	Org. Part Number		7173-4534-40			
Engineering Chang	ering Change Level <b>A5 / AELE-E-11784007-567</b>				Date	d	15/01/	/2019		
Additional Enginee	ering Changes		N/A		Date	d	N/A			
Safety and/or Gov	ernment Regulation	☐ Yes	☑ No Pur	chase Order	No	N/A	Weight (kg)	0,0001		
Checking Aid No.	N/A	Checking A	Aid Engineering Change Leve	I		N/A	Dated	N/A		
ORGANIZATION I	MANUFACTURING INFOR	MATION		CUSTO	MER SUBMITT	AL INFORMA	ΓΙΟΝ			
YAZAKI EURO	OPE LTD e & Supplier/Vendor Code		323047696	NURS	AN					
Richard-Byrd										
Street Address			_	•	ıyer Code					
Cologne City	NRW Region	D-50829 Postal Code	Germany Country	FORD						
MATERIALS REP	•	i dotal dodd	Country							
		rn information been reported	<del>1</del> 2			□ No	□ n/a			
Tido odotomor roqu		ted by IMDS or other custor			IMDS	_ NO	<u> </u>			
						111770947	1 / 1			
Are polymeric part	s identified with appropriate	ISO marking codes?			☐ Yes	□ No	☑ n/a	_		
REASON FOR SU	IBMISSION (Check at leas	st one)								
☐ Initial sub					Change to Optional Construction or Material Supplier or Material Source Change					
Linginicen	ing Change(s) Fransfer, Replacement, Rei	furbishment, or additional				art Processing	Change			
Correctio	n of Discrepancy	,			J	ed at Additiona	al Location			
☐ Tooling Ir	nactive > than 1 year			<b>4</b>		e specify below	v			
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 RE	SULTS									
The results for ☑	dimensional measur		naterial and functional tests	/es	☐ appearar ☐ NO	nce criteria		statistical process package		
These results mee Mold / Cavity / Pro	t all drawing and specificati duction Process		OF 8 / MOLDING	. 63	□ NO	(If "NO" - E	xplanation Required)			
DECLARATION  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 15064 / 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/C					, garantee					
	Tool properly tagged and n		aif.	res	□ No	☑ n/a		40 Navarah at 2000		
Organization Author	9	Prazeres						10 November 2023		
Print Name	Prazeres Silva		Phone No.	@ve=-1:		_	FAX No.	_		
Title <b>QE</b>					europe.com					
			CUSTOMER USE ONLY (IF A	APPLICABLE	Ξ)					
PPAP Warrant Dis	sposition:	pproved	cted   Other							
Customer Signatur							Date			
Print Name				Customer Tra	acking No. (option	onal)				



# Production Part Approval Dimensional Results

# Partes Aprobadas de Producción Resultados Dimensionales

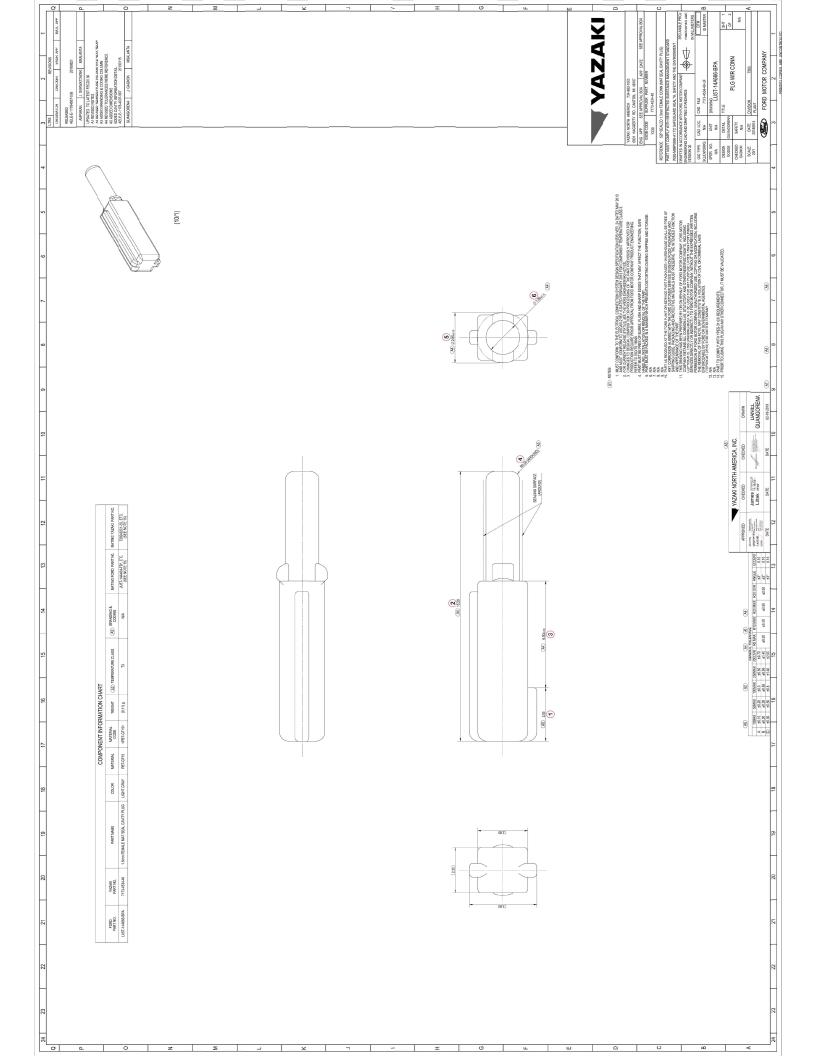
SUPPLIER/PROVEEDOR:
INSP. FACILITY/PLANTA DE INSP.:
ENG.LEVEL/NIVEL DE ING.:
Nº. OF CAVITIES/No DE CAVIDAD:
DRAWING/PLANO:
DIE No./No. DE DADO-MOLDE:

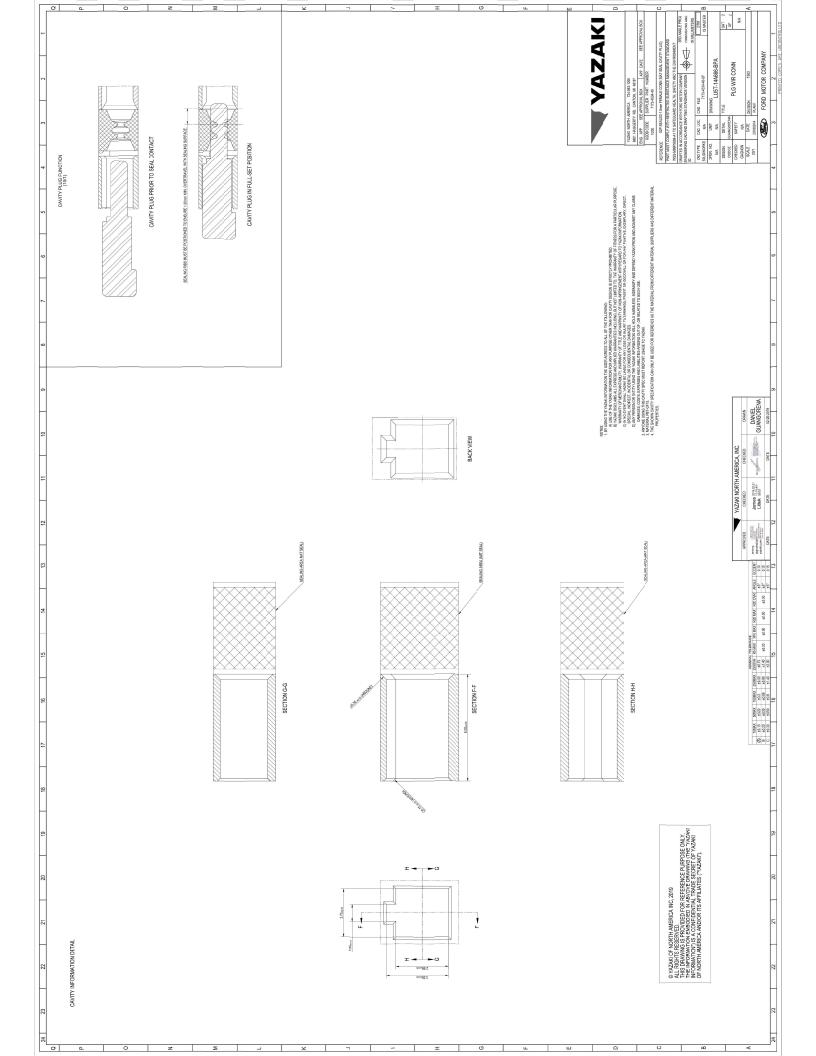
YCC
YCC
A5
8 OF 8
CUSTOMER FORD
YA-1

CC CONTROL NUMBER:	2301-4005
CUSTOMER PART No./No. PARTE DEL CLIENTE:	LU5T-14A666-BPA
AZAKI PART No./No. PARTE YAZAKI:	7173-4534-40
PART NAME/NOMBRE DE PARTE:	PLG WIR
•	CONN

ITEM No/	SPEC / ESPECI	FICACION	1	5	SUPPLIER	MEASUF	REMENT/F	RESULTA	DOS DIME	NSIONALI	ES.	Date/	Inspect by/	Equipo /	Dev./	ОК	NOT OF
DIM. No.	DIMENSION	- TOL.	+ TOL.	CAV. 1	CAV. 2	CAV. 3	=	CAV. 5	CAV. 6		CAV. 8	Fecha	Inspec. Por		Des.		NG
	3.00	0.30	0.30	2.96	2.99	3.00	3.00	3.00	2.99	3.00	2.97	01/24/23	Cintia Gonzalez	SS-ACC016		*	
2	15.20	0.50	0.50	15.17	15.20	15.18	15.20	15.18	15.20	15.19	15.20	01/24/23	Cintia Gonzalez	SS-ACC016		*	
В Т	6.00	0.30	0.30	6.06	6.03	6.04	6.07	6.05	6.03	6.06	6.03	01/24/23	Cintia Gonzalez	SS-ACC016		*	
В				6.08	6.01	6.04	6.05	6.05	6.03	6.05	6.02	01/24/23	Cintia Gonzalez	SS-ACC016		*	
ļ	R 0.50	0.20	0.20	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	01/24/23	Cintia Gonzalez	SS-ACC016		*	
5	Ø 2.85	0.10	0.10	2.82	2.80	2.86	2.82	2.84	2.81	2.81	2.80	01/24/23	Cintia Gonzalez	SS-ACC016		*	
i IN	Ø 1.90	0.15	0.15	1.86	1.86	1.88	1.88	1.86	1.87	1.88	1.89	02/25/23	Cintia Gonzalez	SS-ACC016		*	
Х				1.87	1.87	1.87	1.87	1.86	1.86	1.88	1.86	02/25/23	Cintia Gonzalez	SS-ACC016		*	
Y				1.86	1.87	1.86	1.86	1.87	1.85	1.87	1.91	02/25/23	Cintia Gonzalez	SS-ACC016		*	
OUT				1.94	1.93	1.94	1.94	1.94	1.93	1.93	1.89	02/25/23	Cintia Gonzalez	SS-ACC016		*	
Х				1.92	1.93	1.92	1.93	1.93	1.94	1.92	1.87	02/25/23	Cintia Gonzalez	SS-ACC016		*	
Υ				1.95	1.94	1.94	1.93	1.94	1.93	1.94	1.89	02/25/23	Cintia Gonzalez	SS-ACC016		*	
													l				i .
		_	AL	.L N	OTI	ES /	<b>ARE</b>	IN	COI	MPL	IAN	CE					Ь—
		_	I		1				1		I				-		$\vdash$
Notes/Notas:											ı						
				AL													
			Reviev	v By/ Revi	sado Por:		Ci	ntia Gonz	alez								
			Approved	By /Aprob	oado Por:		Ca	arolina Va	rgas								

PAGE1/1 QA-059 Rev. 6





<b>32K1</b> ADD6	904 BILL OI	MATERIAL	INQUI	RY	23/05/25 15:26:40
PARENT IT	EM : 7173-4534-40 1.5MM FEMALE MAT SEA	ECN <b>CAVITY P</b>	:	F1:ECN INQUI	
	CHILD ITEM			QUANTITY REQUIRED UOM	DATE DATE EFFEC. DISC.
01	BAG-PLA-008 70X80 CM BOLSA DE PLAS		R CMP	000.00005 <b>EA</b>	181025 000000
01	BAGPLA013 BOLSA PLASTICO 15X25 (	7 2 PU	R CMP	000.00100 EA	181203 000000
01	BOXCOR004 14 11/16X10 1/4X7 3/4	7 2 PU	R CMP	000.00025 <b>EA</b>	181203 000000
01	CON-PLA-001	7 2 PU	R CMP	000.00005 <b>EA</b>	181025 000000
01	CON PLAS NO 1(48X38X16 LAB-PAP-001 ETIQUETA PARA CAJA	7 2 PU	R CMP	000.00025 <b>EA</b>	181203 000000
01	LAB-PAP-002 PAPER LABEL	7 2 PU	R CMP	000.00100 EA	181203 000000
01	PALW00001 47X44X4X 1/2 IN SIZE E	7 2 PU 3 PALLET	R CMP	000.00025 <b>EA</b>	190711 000000

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

<b>32K1</b> ADD0	04 BILL OF M	MATERIAL I	NQUIRY		23/05/25 15:26:40
PARENT IT FUN :	EM : 7173-4534-40 1.5MM FEMALE MAT SEAL (	ECN:		F1:ECN INQUI	
	CHILD ITEM	T O DEP	LIN F	QUANTITY REQUIRED UOM	DATE DATE EFFEC. DISC.
01	TAP-PLA-001 SHUR TAPE 2"X100 M	7 2 PUR	CMP 06	00.00050 <b>KG</b>	190619 000000
01	854300441058 PF PBT CRAS CE2560 NC016	3 3 F00 GRAY	CMP 06	00.00161 <b>KG</b>	181025 000000
<b>02</b>	85430044 PF PBT CRAS CE2560 NC016	4 2 PUR	CMP 06	00.98000 <b>KG</b>	150130 000000
02	87091058 NB72620047 GRAY PBT-G	4 2 PUR	CMP 0	00.02000 <b>KG</b>	150130 000000

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

Letter 1 of 1 Page 1 of 13



DuPont Washington Works Certification Office P.O. Box 1217 Washington, WV 26181-1217

May 24, 2023

AUTOCONECTORES DE CHIHUAHUA ELCOM S. DE RL. DE C.V. ISHIKAWA NO. 1400 PARQU QUALITY ASSURANCE PARQUE INDUSTRIAL SUPRA Chihuahua - CHI 31137 DU PONT ORDER NO: 2501555972 CUSTOMER PO NO: K1230011209 DELIVERY DATE: 05/24/23 DELIVERY NO: 7900098705

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		SPECIFICATION(S)	
		<u>Kgs</u>	<u>Lbs</u>		
ZYTEL® HTNHPALG2D DB003 25 KG BAG CPN:85799K02	NSDXDGL101	1000.00	2204.00	DU PONT STD SPEC YAZAKI YPES 25-02-284	
ZYTEL® ZYT70G35HSLRA4 BK267 25 KG BAG CPN:85434017	N89XCSS101	2000.00	4408.00	DU PONT STD SPEC	
ZYTEL® 70G35HSL NC010 25 KG BAG CPN:85434013	N59XD26102	1000.00	2204.00	DU PONT STD SPEC YAZAKI YPES-25-02-513	

PRODUCT(S)	LOT(S)	<u>QTY</u>		SPECIFICATION(S)	
		<u>Kgs</u>	<u>Lbs</u>		
CRASTIN® HR5330HF NC010 25 KG BAG CPN:85434009	NSAXCY2301	1000.00	2204.00	DU PONT STD SPEC	
CRASTIN® CE2560 NC010 25 KG BAG POLYESTER RESIN CPN:85430044	NSAXCXZ202	1000.00	2204.00	DU PONT STD SPEC	
CFN.03430044	NSBWJER101	1000.00	2204.00		
CRASK602 NC010 25 KG PE BAG CPN:85430033	EUQWLRJ510	4000.00	8816.00	DU PONT STD SPEC	
CRASK602 BK851 25 KG PE BAG CPN:85430034	EUQWHPE201	1000.00	2204.00	DU PONT STD SPEC	
CRASTIN® CE2560 BK503 25 KG PE BAG POLYESTER RESIN CPN:85430045	EUTWLVN102	1000.00	2204.00	DU PONT STD SPEC	

Product: ZYTEL® HTNHPALG2D DB003 25 KG BAG

	<u>LIMITS</u>						
TESTS	TEST METHOD	MIN	MAX	RESULTS			
LOT TEST	•			SDXDGL101			
Water Content at Packout, %	ISO 15512		0.18	0.06			

# DU PONT COMPANY CUSTOMER SPECIFICATION

Product: ZYTEL® HTNHPALG2D DB003 25 KG BAG

Specification: YAZAKI YPES 25-02-284

		<u>LIIV</u>	<u>ITS</u>		
TESTS	TEST METHOD	MIN	MAX	RESULTS	}
LOT TEST		<del></del>	LOT NO: N	ISDXDGL101	
BOT TEST			LOT NO. I	IODXDOL TO I	
Melt Viscosity, Pa.s	ISO 11443	100	170	132	(01)
Notched Izod Impact @ 23°C, kJ/m2	ISO 180	8.0		16.8	
Strain at Break, 50mm/min, %	ISO 527-1&2	10		18	
Tensile Stress @ Break, 50mm/min, MPa	ISO 527	54.0		62.4	
Water Content at Packout, %	ISO 15512		0.18	0.06	

(01) APPARENT MELT VISCOSITY DETERMINED USING A CAPILLARY DIE WITH AN INLET ANGLE OF 120.

Product: ZYTEL® ZYT70G35HSLRA4 BK267 25 KG BAG

	<u>LIMITS</u>					
TESTS	TEST METHOD	MIN	MAX	RESULTS		
LOT TEST			LOT NO: N	89XCSS101		
Ash Content %	ISO 3451/1	33	37	35		
Melt Viscosity, Pa.s	ISO 11443	90	190	106		
Water Content at Packout, %	ISO 15512		0.18	0.06		

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

		<u>LIM</u>	<u>IITS</u>	
TESTS	TEST METHOD	MIN	MAX	RESULTS
LOT TEST			LOT NO: N	N59XD26102
Ash Content %	ISO 3451/1	33.0	37.0	34.9
Melt Viscosity, Pa.s	ISO 11443	120	220	193
Water Content at Packout, %	ISO 15512		0.18	0.15
PERIODIC TEST			LAST TES	T DATE: December 2021
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2			253
Density, g/cm3	ISO 1183/Method A			1.42
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA			14.3
Temp of melting,2nd melt,10°C/min °C	ISO 11357			260
Tensile Modulus, Mpa	ISO 527-1&2			11900
Tensile Stress @ Break, 5mm/min, MPa	ISO 527			216

# DU PONT COMPANY CUSTOMER SPECIFICATION

Product: ZYTEL® 70G35HSL NC010 25 KG BAG

Specification: YAZAKI YPES-25-02-513

		<u>LIN</u>	<u>IITS</u>		
TESTS	TEST METHOD	MIN	MAX	RESULT	ΓS
LOT TEST			LOT NO: N	N59XD26102	
Ash Content %	ISO 3451/1	33.0	37.0	34.9	
Melt Viscosity, Pa.s	ISO 11443	120	220	193	(01)
Water Content at Packout, %	ISO 15512		0.20	0.15	
PERIODIC TEST			LAST TES	T DATE: Decer	mber 2021
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2	245		253	
Density, g/cm3	ISO 1183/Method A	1.35	1.45	1.42	
Notched Charpy Impact @ 23C, kj/m2	ISO 179/1eA	9.0		14.3	
Temp of melting,2nd melt,10°C/min °C	ISO 11357	250	265	260	
Tensile Modulus, Mpa	ISO 527-1&2	9000		11900	
Tensile Stress @ Break, 5mm/min, MPa	ISO 527	180		216	

(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: CRASTIN® HR5330HF NC010 25 KG BAG

		<u>LIMI</u>	<u>TS</u>		
TESTS	TEST METHOD	MIN	MAX	RESULT	S
LOT TEST			LOT NO: N	ISAXCY2301	
Ash Content %	ISO 3451/1	28.0	32.0	29.3	
Melt Viscosity, Pa.s	ISO 11443	150.00	250.00	187.75	(01)
Water Content at Packout, %	ISO 15512		0.10	0.01	

(01) PERFORMED AT 250°C WITH A SHEAR RATE OF 1000/SEC AND A DWELL TIME OF 360 SECS USING AN ORIFICE WITH AN L/D RATIO OF 20:1 AND AN ENTRANCE ANGLE OF  $120^{\circ}$ 

Product: CRASTIN® CE2560 NC010 25 KG BAG POLYESTER RESIN

		<u>LIN</u>	<u>IITS                                   </u>		
TESTS	TEST METHOD	MIN	MAX	RESUL	TS
LOT TEST			LOT NO:	NSAXCXZ202	
Ash Content %	ISO 3451/1	13.0	17.0	14.9	
Melt Viscosity, Pa.s	ISO 11443	100	300	192	(01)
Water Content at Packout, %	ISO 15512		0.10	0.01	

(01) PERFORMED AT 250°C WITH A SHEAR RATE OF 1000/SEC AND A DWELL TIME OF 360 SECS USING AN ORIFICE WITH AN L/D RATIO OF 20:1 AND AN ENTRANCE ANGLE OF  $120^{\circ}$ 

Product: CRASTIN® CE2560 NC010 25 KG BAG POLYESTER RESIN

		<u>LIN</u>	<u>IITS</u>		
TESTS	TEST METHOD	MIN	MAX	RESUL	TS
LOT TEST			LOT NO:	NSBWJER101	
Ash Content %	ISO 3451/1	13.0	17.0	14.7	
Melt Viscosity, Pa.s	ISO 11443	100	300	187	(01)
Water Content at Packout, %	ISO 15512		0.10	0.02	

(01) PERFORMED AT 250°C WITH A SHEAR RATE OF 1000/SEC AND A DWELL TIME OF 360 SECS USING AN ORIFICE WITH AN L/D RATIO OF 20:1 AND AN ENTRANCE ANGLE OF  $120^{\circ}$ 

Product: CRASK602 NC010 25 KG PE BAG

		LIM	ITS_		
TESTS	TEST METHOD	MIN	MAX	RESULTS	3
LOT TEST			LOT NO: E	:UQWLRJ510	
Ash Content %	ISO 3451/1	13.0	17.0	14.9	
Melt Viscosity, Pa.s	ISO 11443	160	260	205	(01)
Water Content at Packout, %	ISO 15512		0.10	0.03	
PERIODIC TEST			LAST TES	T DATE: Decemb	oer 2022
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2			195	
Density, g/cm3	ISO 1183/Method A			1.41	
Notched Charpy Impact Strength @ 23C	ISO 179/1eA			7.1	
Temp of melting,2nd melt,10°C/min °C	ISO 11357			225	
Tensile Modulus, Mpa	ISO 527-1&2			5710	
Tensile Stress @ Break, 5 Mm/Min	ISO 527-1&2			106	
HISTORICAL TEST					
Flammability (Burn Rate 1 of 5), mm/min	ISO 3795			B/24.00	
Flammability (Burn Rate 2 of 5), mm/min	ISO 3795			B/38.20	
Flammability (Burn Rate 3 of 5), mm/min	ISO 3795			B/36.55	
Flammability (Burn Rate 4 of 5), mm/min	ISO 3795			B/29.88	
Flammability (Burn Rate 5 of 5), mm/min	ISO 3795			B/31.62	
Flammability, mm/min	ISO 3795		100	B/32.05	
Plaque Thickness, mm	ISO 3795			1.89	

(01) PERFORMED AT 250°C WITH A SHEAR RATE OF 1000/SEC AND A DWELL TIME OF 360 SECS USING AN ORIFICE WITH AN L/D RATIO OF 20:1 AND AN ENTRANCE ANGLE OF  $120^{\circ}$ 

Product: CRASK602 BK851 25 KG PE BAG

		<u>LIMI</u>	<u>ΓS</u>	
TESTS	TEST METHOD	MIN	MAX	RESULTS
		- <del></del>		
LOT TEST			LOT NO: EL	JQWHPE201
Ash Content %	ISO 3451/1	13.0	17.0	14.8
Melt Viscosity, Pa.s	ISO 11443	160	260	220
PERIODIC TEST			LAST TEST	DATE: December 2021
Deflection Temperature @1.80 MPa, °C	ISO 75-1&2			193
Density, g/cm3	ISO 1183/Method A			1.40
Notched Charpy Impact Strength @ 23C	ISO 179/1eA			5.4
Temp of melting,2nd melt,10°C/min °C	ISO 11357			224
Tensile Modulus, Mpa	ISO 527-1&2			5610
Tensile Stress @ Break, 5 Mm/Min	ISO 527-1&2			98
HISTORICAL TEST				
Flammability (Burn Rate 1 of 5), mm/min	ISO 3795			B/38.48
Flammability (Burn Rate 2 of 5), mm/min	ISO 3795			B/39.58
Flammability (Burn Rate 3 of 5), mm/min	ISO 3795			B/41.08
Flammability (Burn Rate 4 of 5), mm/min	ISO 3795			B/40.86
Flammability (Burn Rate 5 of 5), mm/min	ISO 3795			B/37.54
Flammability, mm/min	ISO 3795			B/39.51
Plaque Thickness, mm	ISO 3795			1.90

Product: CRASTIN® CE2560 BK503 25 KG PE BAG POLYESTER RESIN

		<u>LIN</u>	<u>IITS</u>		
TESTS	TEST METHOD	MIN	MAX	RESUL	TS
LOT TEST			LOT NO: E	EUTWLVN102	
Ash Content %	ISO 3451/1	13.0	17.0	15.5	
Melt Viscosity, Pa.s	ISO 11443	120	220	176	(01)
Water Content at Packout, %	ISO 15512		0.10	0.03	

(01)



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

Certificate of Analysis

Date: 05/16/2023

Page: 1 / 1

Your order from 04/26/2023

Order No.

: K1230011027

Material No.

: 87091058

Delivery no./Pos. : 53543956 / 900001

Order

: 15648648

Material

: GYB877 PBT CRASTIN CE2533

Old Material No. : NB72620047 Material-no.

: NB72620047

:

Batch No.

: USPH040777

Quantity

476.272 KG

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

Inspection characteristic/-method	Specification	Result		
COLOR - VISUAL		Pass		
Da		0.02	CIELAB	
Db		-0.89	CIELAB	
DE	0.00 - 1.00	0.46	CMC	
DL '		0.13	CIELAB	
BULK DENSITY	9	0.81	g/ml	
Date of production		05/16/2023		

The above particulars do not release the customer from the obligation to carry out an inspection of goods received.

This report does not require a signature. Management System Certified according to ISO 9001, ISO 14001 and OHSAS 18001