



V201.A41.B

PRODUCT DESCRIPTION

A soft , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family which offers higher temperature resistance and good compression set with good UV resistance

GENERAL PROPERTIES			
Material Status	Active		
Availability	Europe North America Asia- Pasific Africa & Middle East		
Features	Designed for Higher Heat Resistance Excellent Compression Set Ozone Resistance Adhesion to Polyolefins Recyclable Compliant with RoHS Directive 2011/65/EU		
Certification	RoHS		
Appearance	Black		
Form	Pellets		
Processing Method	Injection,Extrusion		

Automotive Specifications

GM/GMW 15813P (TYPE 2E)

Physical Properties				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Density	0.94 g/cm³	0,94 g/cm ³	ASTM D 792	
Durometer Hardness, 3 sec (Shore A)	41.00	41,00	ASTM D 2240	
Tensile Strength at Break	508 Psi	3,50 MPa	ASTM D412, Method A	
Mod.of Elasticity %100	174 Psi	1,20 MPa	ASTM D412, Method A	
Mod.of Elasticity %300	305 Psi	2,10 MPa	ASTM D412, Method A	
Elongation at break	600.00 %	600,00 %	ASTM D412, Method A	
Compression Set (at 73 °F, 22 h)	16.00 %	16,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 158 °F, 22 h)	24.00 %	24,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	28.00 %	28,00 %	ASTM D 395, Type 2, Method B	
Tear Resistance	85.65 lbf/in	15,00 N/mm	ASTM D624	

Shrinkage				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Flow 3.45%		3.45%	ASTM D955	
Across Flow	1.86%	1.86%	ASTM D955	

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Ageing Tests				
Additional Information	Typical Value (English)	Typical Value (SI)	Test Method	
Ozone Resistance-Stressed	No cracks	No cracks	ASTM D 1149	

Bondable to

PE-PP-EVA

Additional Information

Elastron products are not compatible with PVC and Acetal. Regrinding level up to %20 is recommended with minimum property loss.

Processing				
Injection Molding	Typical Value (English)		Typical Value (SI)	
Drying temperatures	194	°F	90	°C
Drying time	2	hours	2	hours
Rear Zone temp.	311-347	°F	155- 175	°C
Middle Zone temp.	329-365	°F	165- 185	°C
Front Zone temp.	338-374	°F	170- 190	°C
Nozzle Temperature	356-410	°F	180- 210	°C
njection Speed	High	-	High	-
njection Time	1- 3	sec.	1- 3	sec.
njection Pressure	10-40	bar	10-40	bar
Hold Pressure	5- 20	bar	5- 20	bar
Back Pressure	5- 40	bar	5- 40	bar
Screw Speed	50- 200	rpm	50- 200	rpm
Mold Temperature	77-122	°F	25- 50	°C
Screw Comp. ratio	2.0:1- 4.0:1	-	2.0:1- 4.0:1	-
Screw L/D ratio	18- 24	-	18- 24	-
Residence time	1-2 shot	-	1-2 shot	-
Cushion size	0.3120	inc	8	mm
Suggested Max Regrind	20	%	20	%

Extrusion Molding	Typical Value (English)		Typical Value (SI)	
Drying temperatures	194	°F	90	°C
Drying time	2	hours	2	hours
Screw Comp. Ratio	2.0:1- 4.0:1	-	2.0:1- 4.0:1	-
Screw L/D	18- 30	-	18- 30	-
Feed Zone temp.	311-329	°F	155- 165	°C
Rear Zone temp.	320-356	°F	160- 180	°C
Center Zone temp.	329-365	°F	165- 185	°C
Front Zone temp.	338-374	°F	170- 190	°C
Head temp.	356-410	°F	180- 210	°C
Die temp.	365-419	°F	185- 215	°C
Suggested Max Regrind	20	%	20	%

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ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS









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