



V251.A58.B

PRODUCT DESCRIPTION

A soft , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family which offers higher temperature resistance and very good compression set with very good UV resistance. This product is specially designed for weatherseal applications.

GENERAL PROPERTIES			
Material Status	Active		
Availability	Europe North America Asia- Pasific Africa & Middle East		
Features	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 15812P (TYPE 4)

Physical Properties				
Property	Typical Value (English)	Typical Value (SI)	Test Method ASTM D 792	
Density	0.92 g/cm ³	0,92 g/cm ³		
Durometer Hardness, 3 sec (Shore A)	58.00	58,00	ASTM D 2240	
Tensile Strength at Break	725 Psi	5,00 MPa	ASTM D412, Method A	
Mod.of Elasticity %100	261 Psi	1,80 MPa	ASTM D412, Method A	
Mod.of Elasticity %300	464 Psi	3,20 MPa	ASTM D412, Method A	
Elongation at break	400.00 %	400,00 %	ASTM D412, Method A	
Compression Set (at 73 °F, 22 h)	17.00 %	17,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 158 °F, 22 h)	29.00 %	29,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	35.00 %	35,00 %	ASTM D 395, Type 2, Method B	
Tear Resistance	esistance 142.75 lbf/in		ASTM D624	

Shrinkage					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Flow	2.33%	2.33%	ASTM D955		
Across Flow	1.69%	1.69%	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.

Injection Molding	Typical Value (English)		Typical Value (SI)	
Drying temperatures	194	°F	90	°C
Orying time	2	hours	2	hours
Rear Zone temp.	311-347	°F	155- 175	°C
liddle Zone temp.	329-365	°F	165- 185	°C
ront Zone temp.	338-374	°F	170- 190	°C
lozzle 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
lold Pressure	5- 20	bar	5- 20	bar
ack Pressure	5- 40	bar	5- 40	bar
crew Speed	50- 200	rpm	50- 200	rpm
lold Temperature	77-122	°F	25- 50	°C
crew Comp. ratio	2.0:1- 4.0:1	-	2.0:1- 4.0:1	-
crew L/D ratio	18- 24	-	18- 24	-
esidence time	1-2 shot	-	1-2 shot	-
ushion size	0.3120	inc	8	mm
uggested Max Regrind	20	%	20	%

Extrusion Molding	Typical Value (English)		Typical \	/alue (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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