



V100.A70.B

PRODUCT DESCRIPTION

A soft , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family designed for injection 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		

Physical Properties				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Density	0.96 g/cm³	0,96 g/cm ³	ASTM D 792	
Durometer Hardness, 3 sec (Shore A)	70.00	70,00	ASTM D 2240	
Tensile Strength at Break	870 Psi	870 Psi 6,00 MPa		
Mod.of Elasticity %100	305 Psi	2,10 MPa	ASTM D412, Method A	
Mod.of Elasticity %300	%300 464 Psi		ASTM D412, Method A	
Elongation at break	500.00 %	500,00 %	ASTM D412, Method A	
Compression Set (at 73 °F, 22 h)	20.00 %	20,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 158 °F, 22 h)	42.00 %	42,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	58.00 % 58,00 %		ASTM D 395, Type 2, Method B	
Tear Resistance	159.88 lbf/in	28,00 N/mm	ASTM D624	

Shrinkage					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Flow	v 1.66%		ASTM D955		
Across Flow	1.33%	1.33%	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 Va	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	Moderate	-	Moderate	-	
njection Time	2- 4	sec.	2- 4	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	1.5:1- 2.0:1	-	1.5:1- 2.0:1	-	
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	-	°F	-	°C
Drying time	-	hours	-	hours
Screw Comp. Ratio	-	-	-	-
Screw L/D	-	-	-	-
Feed Zone temp.	-	°F	-	°C
Rear Zone temp.	-	°F	-	°C
Center Zone temp.	-	°F	-	°C
Front Zone temp.	-	°F	-	°C
Head temp.	-	°F	-	°C
Die temp.	-	°F	-	°C
Suggested Max Regrind	-	%	-	%

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









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