

V101.A60.B

PRODUCT DESCRIPTION

A soft , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer family that offers good physical properties and chemical resistance

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		

Physical Properties				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Density	0.97 g/cm³	0,97 g/cm ³	ASTM D 792	
Durometer Hardness, 3 sec (Shore A)	60.00	60,00	ASTM D 2240	
Tensile Strength at Break	798 Psi		ASTM D412, Method A	
Mod.of Elasticity %100	asticity %100 276 Psi		ASTM D412, Method A	
Mod.of Elasticity %300	551 Psi	3,80 MPa	ASTM D412, Method A	
Elongation at break	600.00 %	600,00 %	ASTM D412, Method A	
Compression Set (at 73 °F, 22 h)	pression Set (at 73 °F, 22 h) 17.00 %		ASTM D 395, Type 2, Method B	
Compression Set (at 158 °F, 22 h)	sion Set (at 158 °F, 22 h) 33.00 %		ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	46.00 %	46,00 %	ASTM D 395, Type 2, Method B	
Tear Resistance	177.01 lbf/in	31,00 N/mm	ASTM D624	

Shrinkage				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Flow	2.70% 2.70%		ASTM D955	
Across Flow	0.93%	0.93% 0.93%		
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Ageing Tests					
Typical Value (English)	Typical Value (SI)	Test Method			
No cracks	No cracks	ASTM D 1149			
Bondable to					
PE-PP-EVA					
	Typical Value (English) No cracks Bondable to	Typical Value (English) Typical Value (SI) No cracks No cracks Bondable to Statement			

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	
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	
Injection Speed	Moderate	-	Moderate	-	
Injection Time	2-4	Sec.	2-4	sec.	
Injection 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		alue (SI)	
Drying temperatures	194	°F	90	C°
Drying time	2	hours	2	hours
Screw Comp. Ratio	1.5:1- 2.0:1	-	1.5:1- 2.0:1	-
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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