

V206.D60.B

PRODUCT DESCRIPTION

A hard , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family designed for low coefficient of friction requirements

GENERAL PROPERTIES			
Material Status	Active		
Availability	Europe North America Asia- Pasific Africa & Middle East		
Features	Low Coefficient of Friction Properties Ozone Resistance Adhesion to Polyolefins Recyclable Compliant with RoHS Directive 2011/65/EU		
Certification	RoHS		
Appearance	Black		
Form	Pellets		
Processing Method	Injection,Extrusion		

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Property	Typical Value (English)	Typical Value (SI)	Test Method	
Density	0.89 g/cm ³	0,89 g/cm ³	ASTM D 792	
Durometer Hardness, 3 sec (Shore D)	60.00	60,00	ASTM D 2240	
Tensile Strength at Break	sile Strength at Break 3626 Psi		ASTM D412, Method A	
Mod.of Elasticity %100	2060 Psi	14,20 MPa	ASTM D412, Method A	
Mod.of Elasticity %300	2466 Psi	17,00 MPa	ASTM D412, Method A	
Elongation at break	500.00 %	500,00 %	ASTM D412, Method A	
Tear Resistance	559.59 lbf/in	98,00 N/mm	ASTM D624	

Shrinkage					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Flow	1.65%	1.65%	ASTM D955		
Across Flow	1.40% 1.40%		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						

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	
Injection Speed	High	-	High	-	
Injection Time	1-3	sec.	1-3	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	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 V	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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