

V100.A60.N

PRODUCT DESCRIPTION

A soft , colorable 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	Natural		
Form	Pellets		
Processing Method	Injection		

Physical Properties				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Density	0.96 g/cm ³	0,96 g/cm ³	ASTM D 792	
Durometer Hardness, 3 sec (Shore A)	60.00	60,00	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	450 Psi	3,10 MPa	ASTM D412, Method A	
Elongation at break	600.00 %	600,00 %	ASTM D412, Method A	
Compression Set (at 73 °F, 22 h)	Set (at 73 °F, 22 h) 18.00 %		ASTM D 395, Type 2, Method B	
Compression Set (at 158 °F, 22 h)	36.00 %	36,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	53.00 %	53,00 %	ASTM D 395, Type 2, Method B	
fear Resistance 137.04 lbf/in		24,00 N/mm	ASTM D624	

Shrinkage					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Flow	2.83%	2.83%	ASTM D955		
Across Flow	1.45%	1.45%	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 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 V	/alue (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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