



V201.A45.N

PRODUCT DESCRIPTION

A soft , colorable thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family which offers higher temperature resistance and good compression set with good UV resistance

GENERAL PROPERTIES			
Material Status	Active		
Availability	Europe North America Asia- Pasific Africa & Middle East		
Features	Designed for Higher Heat Resistance Excellent Compression Set Ozone Resistance Adhesion to Polyolefins Recyclable Compliant with RoHS Directive 2011/65/EU		
Certification	RoHS		
Appearance	Natural		
Form	Pellets		
Processing Method	Injection, Extrusion		

Physical Properties				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Density	0.95 g/cm³	0,95 g/cm ³	ASTM D 792	
Durometer Hardness, 3 sec (Shore A)	45.00	45,00	ASTM D 2240	
Tensile Strength at Break	580 Psi	4,00 MPa	ASTM D412, Method A	
Mod.of Elasticity %100	189 Psi	1,30 MPa	ASTM D412, Method A	
Mod.of Elasticity %300	406 Psi	2,80 MPa	ASTM D412, Method A	
Elongation at break	500.00 %	500,00 %	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)	25.00 %	25,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	30.00 %	30,00 %	ASTM D 395, Type 2, Method B	
Tear Resistance	91.36 lbf/in	16,00 N/mm	ASTM D624	

Shrinkage				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Flow	2.63%	2.63%	ASTM D955	
Across Flow	1.50%	1.50%	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.

Processing				
Injection Molding Drying temperatures	Typical Value (English)		Typical Value (SI)	
	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	High	-	High	-
njection Time	1- 3	sec.	1- 3	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	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 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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