

V201.D40.N

PRODUCT DESCRIPTION

A hard , 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 D)	40.00	40,00	ASTM D 2240	
Tensile Strength at Break	2756 Psi	19,00 MPa	ASTM D412, Method A	
Mod.of Elasticity %100	f Elasticity %100 1189 Psi		ASTM D412, Method A	
Mod.of Elasticity %300	y %300 1479 Psi		ASTM D412, Method A	
Elongation at break	600.00 %		ASTM D412, Method A	
Compression Set (at 73 °F, 22 h)	npression Set (at 73 °F, 22 h) 40.00 %		ASTM D 395, Type 2, Method B	
Compression Set (at 158 °F, 22 h)	ppression Set (at 158 °F, 22 h) 57.00 %		ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	66.00 %	66,00 %	ASTM D 395, Type 2, Method B	
ear Resistance 536.75 lbf/in		94,00 N/mm	ASTM D624	

Shrinkage					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Flow	2.05%	2.05%	ASTM D955		
Across Flow	1.05%	1.05%	ASTM D955		
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Ageing Tests					
Additional Information	Additional Information Typical Value (English)		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.

Processing				
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	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 Val	ue (English)	Typical V	/alue (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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