

V100.A75.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 <sup>3</sup>	0,96 g/cm <sup>3</sup>	ASTM D 792	
Durometer Hardness, 3 sec (Shore A)	75.00	75,00	ASTM D 2240	
Tensile Strength at Break	943 Psi	6,50 MPa	ASTM D412, Method A	
Mod.of Elasticity %100	377 Psi	2,60 MPa	ASTM D412, Method A	
Mod.of Elasticity %300	595 Psi	4,10 MPa	ASTM D412, Method A	
Elongation at break	500.00 %	500,00 %	ASTM D412, Method A	
Compression Set (at 73 °F, 22 h)	sion Set (at 73 °F, 22 h) 25.00 %		ASTM D 395, Type 2, Method B	
Compression Set (at 158 °F, 22 h)	44.00 %	44,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	61.00 %	61,00 %	ASTM D 395, Type 2, Method B	
Tear Resistance	ar Resistance 234.11 lbf/in		ASTM D624	

Shrinkage				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Flow	1.58%	1.58% 1.58%		
Across Flow	1.30%	1.30%	ASTM D955	
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## elas n ENGINEERING LIFE

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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.

Processing					
Injection Molding	Typical Va	lue (English)	Typical Valu	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	%	
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## ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS



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