

G500.A45.N.PS

PRODUCT DESCRIPTION

A soft , colorable SEBS based thermoplastic elastomer (TPE) compound specially designed for excellent adhesion to PS.

GENERAL PROPERTIES		
Material Status	Active	
Availability	Europe North America Asia- Pasific Africa & Middle East	
Features	Designed for Excellent Adhesion to PS Insert Molding or 2K Molding Possible Designed for Soft Touch Applications Ozone Resistance Compliant with RoHS Directive 2011/65/EU	
Certification	RoHS	
Appearance	Natural	
Form	Pellets	
Processing Method	Injection	

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Property	Typical Value (English)	Typical Value (SI)	Test Method		
Density	1.18 g/cm ³	1,18 g/cm ³	ASTM D 792		
Durometer Hardness, 3 sec (Shore A)	45.00	45,00	ASTM D 2240		
Tensile Strength at Break	ngth at Break 290 Psi		ASTM D412, Method A		
Mod.of Elasticity %100	116 Psi	0,80 MPa	ASTM D412, Method A		
Mod.of Elasticity %300	203 Psi	1,40 MPa	ASTM D412, Method A		
Elongation at break	500.00 %	500,00 %	ASTM D412, Method A		
Compression Set (at 73 °F, 22 h)	18.00 %	18,00 %	ASTM D 395, Type 2, Method B		
Compression Set (at 158 °F, 22 h)	80.00 %	80,00 %	ASTM D 395, Type 2, Method B		
Tear Resistance	119.91 lbf/in	21,00 N/mm	ASTM D624		

Shrinkage				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Flow	1.58%	1.58%	ASTM D955	
Across Flow	1.23%	1.23%	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					
PS					

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	hours	2 hours	hours	
Rear Zone temp.	356-392	°F	180- 200	°C	
Middle Zone temp.	374-410	°F	190- 210	°C	
Front Zone temp.	401-428	°F	205- 220	°C	
Nozzle Temperature	428-446	°F	220- 230	°C	
Injection Speed	Mod/ High	-	Mod/ High	-	
Injection Time	1- 4	sec.	1-4	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	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	%	
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ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS



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