

P.G401.A40.N

### **PRODUCT DESCRIPTION**

A soft , natural SEBS based thermoplastic elastomer (TPE) compound designed for use in medical 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 Compliant with USP Class VI Requirements		
Certification	RoHS		
Appearance	Natural		
Form	Pellets		
Processing Method	Injection,Extrusion		

Physical Properties				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Density	0.89 g/cm³	0,89 g/cm <sup>3</sup>	ASTM D 792	
Durometer Hardness, 3 sec (Shore A)	40.00	40,00	ASTM D 2240	
Tensile Strength at Break	870 Psi	6,00 MPa	ASTM D412, Method A	
Mod.of Elasticity %100	131 Psi	0,90 MPa	ASTM D412, Method A	
Mod.of Elasticity %300	247 Psi	1,70 MPa	ASTM D412, Method A	
Elongation at break	1000.00 %	1000,00 %	ASTM D412, Method A	
Compression Set (at 73 °F, 22 h)	11.00 %	11,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 158 °F, 22 h)	29.00 %	29,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	ression Set (at 212 °F, 22 h) 55.00 %		ASTM D 395, Type 2, Method B	
Tear Resistance	125.62 lbf/in	22,00 N/mm	ASTM D624	

Shrinkage				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Flow	2.71% 2.71%		ASTM D955	
Across Flow	1.08%	1.08% 1.08%		
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Ageing Tests					
Additional Information	Typical Value (English)	Typical Value (SI)	Test Method ASTM D 1149		
Ozone Resistance-Stressed	No cracks	No cracks			
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 V	Typical Value (SI)	
Drying temperatures	-	°F	-	°C	
Drying time	No need	hours	No need	hours	
Rear Zone temp.	293-347	°F	145- 175	°C	
Middle Zone temp.	311-365	°F	155- 185	°C	
Front Zone temp.	320-374	°F	160- 190	°C	
Nozzle Temperature	347-401	°F	175- 205	°C	
Injection Speed	Low/ Mod	-	Low/ Mod	-	
Injection Time	3- 5	sec.	3- 5	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)		Extrusion Molding Typical Value (English)		Typical Value (SI)	
Drying temperatures	-	°F	-	°C		
Drying time	No need	hours	No need	hours		
Screw Comp. Ratio	1.5:1- 2.0:1	-	1.5:1- 2.0:1	-		
Screw L/D	18- 30	-	18- 30	-		
Feed Zone temp.	302-338	°F	150- 170	°C		
Rear Zone temp.	311-347	°F	155- 175	°C		
Center Zone temp.	329-365	°F	165- 185	°C		
Front Zone temp.	347-401	°F	175- 205	°C		
Head temp.	356-410	°F	180- 210	°C		
Die temp.	374-410	°F	190- 210	°C		
Suggested Max Regrind	-	%	-	%		
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## ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS



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