

P.G401.A80.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		

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Property	Typical Value (English)	Typical Value (SI)	Test Method ASTM D 792	
Density	0.89 g/cm <sup>3</sup>	0,89 g/cm <sup>3</sup>		
Durometer Hardness, 3 sec (Shore A)	80.00	80,00	ASTM D 2240	
Tensile Strength at Break	1740 Psi	12,00 MPa	ASTM D412, Method A	
Mod.of Elasticity %100	537 Psi	3,70 MPa	ASTM D412, Method A	
Mod.of Elasticity %300	812 Psi	5,60 MPa	ASTM D412, Method A	
Elongation at break	900.00 %	900,00 %	ASTM D412, Method A	
Compression Set (at 73 °F, 22 h)	26.00 %	26,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 158 °F, 22 h)	46.00 %	46,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	70.00 %	70,00 %	ASTM D 395, Type 2, Method B	
Tear Resistance	342.61 lbf/in	60,00 N/mm	ASTM D624	

Shrinkage					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Flow	2.33%	.33% 2.33%			
Across Flow 1.17%		1.17%	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						

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)		usion Molding Typical Value (English) Typical Value (SI)		alue (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	20	%	20	%	
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## ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS



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