P.G401.A30.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/cm³	ASTM D 792
Durometer Hardness, 3 sec (Shore A)	30.00	30,00	ASTM D 2240
Tensile Strength at Break	725 Psi	5,00 MPa	ASTM D412, Method A
Mod.of Elasticity %100	116 Psi	0,80 MPa	ASTM D412, Method A
Mod.of Elasticity %300	189 Psi	1,30 MPa	ASTM D412, Method A
Elongation at break	1000.00 %	1000,00 %	ASTM D412, Method A
Compression Set (at 73 °F, 22 h)	9.00 %	9,00 %	ASTM D 395, Type 2, Method B
Compression Set (at 158 °F, 22 h)	27.00 %	27,00 %	ASTM D 395, Type 2, Method B
Compression Set (at 212 °F, 22 h)	52.00 %	52,00 %	ASTM D 395, Type 2, Method B
Tear Resistance	102.78 lbf/in	18,00 N/mm	ASTM D624

Shrinkage

Property	Typical Value (English)	Typical Value (SI)	Test Method
Flow	2.50%	2.50%	ASTM D955
Across Flow	1.13%	1.13%	ASTM D955

P.G401.A30.N

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

Additional Information

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	-	°F	-	°C
Drying time	-	hours	-	hours
Rear Zone temp.	-	°F	-	°C
Middle Zone temp.	-	°F	-	°C
Front Zone temp.	-	°F	-	°C
Nozzle Temperature	-	°F	-	°C
Injection Speed	-	-	-	-
Injection Time	-	sec.	-	sec.
Injection Pressure	-	bar	-	bar
Hold Pressure	-	bar	-	bar
Back Pressure	-	bar	-	bar
Screw Speed	-	rpm	-	rpm
Mold Temperature	-	°F	-	°C
Screw Comp. ratio	-	-	-	-
Screw L/D ratio	-	-	-	-
Residence time	-	-	-	-
Cushion size	0	inc		mm
Suggested Max Regrind	-	%	-	%

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	-	%	-	%

P.G401.A30.N

Notes

ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS