

Elastron

P.G401.A30.N

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A soft , natural SEBS based thermoplastic elastomer (TPE) compound designed for use in medical applications. This grade is capable of sterilization with steam at 134°C, Gamma (25KGy/50KGy) and EtO.

GENERAL PROPERTIES

Color	Natural	
Certifications	RoHS	USP Class VI
Processing Method	Injection	Extrusion
Available Standards	ASTM	
USP Class VI Compliance	USP Class VI Compliance	

Physical Properties

Property	Unit	Standard	Value
Density	g/cm ³	ASTM D 792	0.89
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	30.00
Tensile Strength at Break	MPa	ASTM D412, Method A	5.00
Mod.of Elasticity %100	MPa	ASTM D412, Method A	0.80
Mod.of Elasticity %300	MPa	ASTM D412, Method A	1.30
Elongation at break	%	ASTM D412, Method A	1000.00
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	9.00
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	27.00
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	52.00
Tear Resistance	N/mm	ASTM D624	18.00

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Ageing Tests			
Property	Unit	Standard	Value
Ozone Resistance	Stressed	ASTM D 1149	No cracks

Bondable to
PE-PP-EVA

Processing		
Injection	Unit	Value
Drying temperatures	°C	-
Drying time	hours	-
Rear Zone temp.	°C	-
Middle Zone temp.	°C	-
Front Zone temp.	°C	-
Nozzle Temperature	°C	-
Injection Speed	-	-
Injection Time	sec.	-
Injection Pressure	bar	-
Hold Pressure	bar	-
Back Pressure	bar	-
Screw Speed	rpm	-
Mold Temperature	°C	-
Screw Comp. ratio	-	-
Screw L/D ratio	-	-
Residence time	-	-
Cushion size	mm	-
Suggested Max Regrind	%	-
Drying time	hours	No need
Screw Comp. Ratio	-	1.5:1- 2.0:1
Screw L/D	-	18- 30
Feed Zone temp.	°C	150- 170
Rear Zone temp.	°C	155- 175
Center Zone temp.	°C	165- 185
Front Zone temp.	°C	175- 205
Head temp.	°C	180- 210
Die temp.	°C	190- 210
Suggested Max Regrind	%	-

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Additional Information

Elastron products are not compatible with PVC and Acetal.
Regrinding level up to %20 is recommended with minimum property loss.

Shrinkage	Unit	Standard	Value
Flow	%	ASTM D955	2.50
Across Flow	%	ASTM D955	1.13

Notes

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

