Elastron

P.G401.A80.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	
Processing Method	Injection	Extrusion
Available Standards	ASTM	
USP Class VI Compliance	USP Class VI Compliance	

Physical Properties

Property	Unit	Standard	Value
Density	g/cm³	ASTM D 792	0.89
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	80.00
Tensile Strength at Break	MPa	ASTM D412, Method A	12.00
Mod.of Elasticity %100	MPa	ASTM D412, Method A	3.70
Mod.of Elasticity %300	MPa	ASTM D412, Method A	5.60
Elongation at break	%	ASTM D412, Method A	900.00
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	26.00
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	46.00
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	70.00
Tear Resistance	N/mm	ASTM D624	60.00

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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	No need
Rear Zone temp.	°C	145- 175
Middle Zone temp.	°C	155- 185
Front Zone temp.	°C	160- 190
Nozzle Temperature	°C	175- 205
Injection Speed	-	Low/ Mod
Injection Time	sec.	3- 5
Injection Pressure	bar	10- 40
Hold Pressure	bar	5- 20
Back Pressure	bar	5- 40
Screw Speed	rpm	50- 200
Mold Temperature	°C	25- 50
Screw Comp. ratio	-	1.5:1- 2.0:1
Screw L/D ratio	-	18- 24
Residence time	-	1- 2 shot
Cushion size	mm	8
Suggested Max Regrind	%	20
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	%	20

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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	2.33
Across Flow	%	ASTM D955	1.17

Notes

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