

Elastron

P.G401.A30.B

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A soft , black 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	Black	
Certifications	RoHS	
Processing Method	Injection	Extrusion
Available Standards	ASTM	

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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