



Elastron

P.G401.A60.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	60.00		
Tensile Strength at Break	MPa	ASTM D412, Method A	8.50		
Mod.of Elasticity %100	MPa	ASTM D412, Method A	1.90		
Mod.of Elasticity %300	MPa	ASTM D412, Method A	2.90		
Elongation at break	%	ASTM D412, Method A	1000.00		
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	16.00		
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	41.00		
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	65.00		
Tear Resistance	N/mm	ASTM D624	38.00		

FR07.03.16 Rev.06 Rev.0001 Page 1/3





Elastron

P.G401.A60.N

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

PE-PP-EVA **Processing** Unit Injection 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 3- 5 sec. Injection Pressure 10- 40 bar Hold Pressure bar 5- 20 Back Pressure 5- 40 bar Screw Speed 50-200 rpm Mold Temperature 25- 50 °С 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- 205 180- 210 Head temp. °C °C Die temp. 190- 210 Suggested Max Regrind % 20

FR07.03.16 Rev.06 Rev.00001 Page 2 / 3





Elastron

P.G401.A60.N

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	2.66
Across Flow	%	ASTM D955	1.41

Notes

The company name, the brand, the logo and all kinds of visuals and writings in this document are the property of Elastron. It cannot be copied, distributed, modified or reproduced without the express written permission of Elastron. Independently, these documents can only be printed for personal use. However, in any case, the visuals and writings contained here cannot be used in another document or web page.

All the visuals, texts, information and explanations and the like in this document are for promotional purposes, giving information and providing convenience to the user. The values presented in this document apply only to the product mentioned above and cannot be extended to other products in general. Elastron is not responsible for the results that may arise from tests outside the control of Elastron. Although Elastron bases the information and suggestions contained herein on reliable data, it does not guarantee that such information and suggestions are correct and that the product is suitable for its intended use.

The user should know that Elastron must obtain the final information before taking any action by referring to the information and suggestions contained in this document.

Elastron reserves the right, at its discretion, to change or terminate the content of the document at any time and in any way.

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









FR07.03.16 Rev.06 Rev.0001 Page 3/3