



Elastron

P.G400.A65.N

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A soft , colorable 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
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	65.00		
Tensile Strength at Break	MPa	ASTM D412, Method A	10.00		
Mod.of Elasticity %100	MPa	ASTM D412, Method A	1.80		
Mod.of Elasticity %300	MPa	ASTM D412, Method A	3.00		
Elongation at break	%	ASTM D412, Method A	950.00		
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	20.00		
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	44.00		
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	66.00		
Tear Resistance	N/mm	ASTM D624	41.00		

FR07.03.16 Rev.06 Rev.0002 Page 1/3





Elastron

P.G400.A65.N

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

PF-PP-FVA

	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			
njection 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	-			
Screw Comp. Ratio	-	-			
Screw L/D	-	-			
Feed Zone temp.	°C	-			
Rear Zone temp.	°C	-			
Center Zone temp.	°C	-	-		
Front Zone temp.	°C	-	<u>-</u>		
Head temp.	°C	-	-		
Die temp.	°C	-	-		
Suggested Max Regrind	%	-			
FR07 03 16 Rev 06		Pay 00002	Page 2 / 3		

FR07.03.16 Rev.06 Rev.00002 Page 2 / 3





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P.G400.A65.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	1.75
Across Flow	%	ASTM D955	1.43

Notes

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









FR07.03.16 Rev.06 Rev.0002 Page 3/3