

## Elastron

#### P.V101.A60.N

### **TECHNICAL DATASHEET**

PRODUCT DESCRIPTION

A soft , colorable thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer family 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** Unit Standard Value Property ASTM D 792 0.92 Density g/cm<sup>3</sup> ASTM D 2240 Durometer Hardness, 3 sec Shore A 60.00 MPa ASTM D412, Method A Tensile Strength at Break 4.50 Mod.of Elasticity %100 MPa ASTM D412, Method A 1.70 Mod.of Elasticity %300 MPa ASTM D412, Method A 3.30 Elongation at break % ASTM D412, Method A 450.00 Compression Set % at 23°C, 22 h ASTM D 395, Type 2, Method B 17.00 Compression Set % at 70°C, 22 h ASTM D 395, Type 2, Method B 30.00 Compression Set % at 100°C, 22 h ASTM D 395, Type 2, Method B 40.00 Tear Resistance ASTM D624 29.00 N/mm

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ENGI-NEERING LIFE



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Ageing Tests					
Property	Unit	Standard	Value		
Ozone Resistance	Stressed	ASTM D 1149	No cracks		
	Во	ndable to			
	P	E-PP-EVA			
Processing					
Injection	Unit	Value			
Drying temperatures	°C	90			
Drying time	hours	2			
Rear Zone temp.	°C	155- 175	5		
Middle Zone temp.	°C	165- 185	5		
Front Zone temp.	°C	170- 190			
Nozzle Temperature	°C	180- 210			
Injection Speed	-	Moderate			
Injection Time	sec.	2-4			
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	8		
Suggested Max Regrind	%	20			
Extrusion	Unit	Value			
Drying temperatures	٦°	90			
Drying time	hours	2			
Screw Comp. Ratio	-	1.5:1- 2.0:1			
Screw L/D	-	18- 30	18- 30		
Feed Zone temp.	°C	155- 165	5		
Rear Zone temp.	°C	160- 180	)		
Center Zone temp.	°C	165- 185	165- 185		
Front Zone temp.	°C	170- 190	170- 190		
Head temp.	°C	180- 210	)		
Die temp.	°C	185- 215	5		
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.					
Flow	%	ASTM D955	3.50		
Across Flow	%	ASTM D955	1.50		

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



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