

Elastron® V P.V101.A90.B

Thermoplastic Vulcanizate

Elastron USA, Inc.

Message:

A soft, black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer family designed for use in medical applications.
Bondable to: PP, EVA, PE

General Information			
Features	Bondability		
	Soft		
Uses	Medical/Healthcare Applications		
Agency Ratings	USP Class VI		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.910	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.8	%	
Across Flow	1.3	%	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	6.60	MPa	
300% Strain	7.80	MPa	
Tensile Strength (Break)	12.0	MPa	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Tear Strength	75.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	32	%	
70°C, 22 hr	48	%	
100°C, 22 hr	69	%	

Additional Information	Nominal Value	Test Method
Ozone Resistance - Stressed	No Cracks	ASTM D518

Injection	Nominal Value	Unit
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Drying Temperature	90.0	°C
Drying Time	2.0	hr
Suggested Max Regrind	20	%
Rear Temperature	155 to 175	°C
Middle Temperature	165 to 185	°C
Front Temperature	175 to 195	°C
Nozzle Temperature	195 to 225	°C
Mold Temperature	25.0 to 50.0	°C

Extrusion	Nominal Value	Unit
Drying Temperature	90.0	°C
Drying Time	2.0	hr
Cylinder Zone 1 Temp.	160 to 180	°C
Cylinder Zone 2 Temp.	165 to 185	°C
Cylinder Zone 3 Temp.	170 to 190	°C
Cylinder Zone 4 Temp.	185 to 205	°C
Cylinder Zone 5 Temp.	190 to 220	°C
Die Temperature	195 to 225	°C

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