

Elastron® V P.V101.A45.N

Thermoplastic Vulcanizate

Elastron USA, Inc.

Message:

A soft, colorable 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		
	Good Colorability		
	Soft		
Uses	Medical/Healthcare Applications		
Agency Ratings	USP Class VI		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	2.8	%	
Across Flow	0.90	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	1.30	MPa	
300% Strain	2.40	MPa	
Tensile Strength (Break)	4.00	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength	20.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	13	%	
70°C, 22 hr	30	%	
100°C, 22 hr	50	%	
Additional Information	Nominal Value		Test Method
Ozone Resistance - Stressed	No Cracks		ASTM D518

Injection	Nominal Value	Unit
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	170 to 190	°C
Nozzle Temperature	180 to 210	°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.	155 to 165	°C
Cylinder Zone 2 Temp.	160 to 180	°C
Cylinder Zone 3 Temp.	165 to 185	°C
Cylinder Zone 4 Temp.	170 to 190	°C
Cylinder Zone 5 Temp.	180 to 210	°C
Die Temperature	185 to 215	°C

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