

Elastron® V V101.A90.B

Thermoplastic Vulcanizate

Elastron USA, Inc.

Message:

A soft, black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer family that offers good physical properties and chemical resistance.
Bondable to: PP, EVA, PE

General Information	
Features	Bondability
	Good Chemical Resistance
	Soft
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	2.5	%	
Across Flow	1.5	%	

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

Mechanical	Nominal Value	Unit	Test Method
Abrasion	100	mm ³	ASTM D1630
Ozone Resistance - Stressed	No Cracks		ASTM D518

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	5.40	MPa	
300% Strain	7.30	MPa	
Tensile Strength (Break)	12.0	MPa	ASTM D412
Tensile Elongation (Break)	750	%	ASTM D412
Tear Strength	50.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	28	%	
70°C, 22 hr	48	%	
100°C, 22 hr	69	%	

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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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