

# Elastron® V V101.D51.B

Thermoplastic Vulcanizate

Elastron USA, Inc.

## Message:

A hard, 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		
	High Hardness		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	2.7	%	
Across Flow	2.4	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	51		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	12.7	MPa	
300% Strain	14.3	MPa	
Tensile Strength (Break)	20.0	MPa	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Tear Strength	90.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	50	%	
70°C, 22 hr	65	%	
100°C, 22 hr	76	%	
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
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	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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