

# Elastron® V V101.A50.N

Thermoplastic Vulcanizate

Elastron USA, Inc.

## Message:

A soft, colorable 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		
	Good Colorability		
	Soft		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	3.1	%	
Across Flow	1.2	%	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	1.20	MPa	
300% Strain	2.30	MPa	
Tensile Strength (Break)	4.50	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength	23.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	16	%	
70°C, 22 hr	28	%	
100°C, 22 hr	50	%	

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	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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#### Recommended distributors for this material

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