

# Elastron® V V100.D40.N

Thermoplastic Vulcanizate

Elastron USA, Inc.

## Message:

A hard, colorable thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family designed for injection applications.

Bondable to: PP, EVA, PE

General Information			
Features	Bondability		
	Good Colorability		
	High Hardness		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.8	%	
Across Flow	1.6	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	7.90	MPa	
300% Strain	9.70	MPa	
Tensile Strength (Break)	15.0	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Tear Strength	95.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	40	%	
70°C, 22 hr	63	%	
100°C, 22 hr	77	%	
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

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