



# OnFlex™-V 1060A-S0003

## Thermoplastic Vulcanizate

### Key Characteristics

#### Product Description

OnFlex™-V provides the performance of traditional vulcanised rubber, but with the processability of a thermoplastic. OnFlex™-V 1000 series thermoplastic elastomer compounds are based on a polyolefin phase with a cross-linked EPDM phase dispersed within it. This range of compounds are specially formulated for injection moulding processes. In addition to this, OnFlex™-V 1000 series thermoplastic elastomer compounds provide excellent colourability (low yellowness), good mechanical properties, excellent flexibility over a wide temperature range, a wide hardness range, and good hydrocarbon, heat ageing and weather resistance.

#### General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Features	• General Purpose		
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.940 g/cm <sup>3</sup>	0.940 g/cm <sup>3</sup>	ISO 1183
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress (100% Strain)	290 psi	2.00 MPa	ISO 37
Tensile Stress (300% Strain)	493 psi	3.40 MPa	ISO 37
Tensile Stress (Break)	508 psi	3.50 MPa	ISO 37
Tensile Elongation (Break)	320 %	320 %	ISO 37
Tear Strength	100 lbf/in	18 kN/m	ISO 34-1
Compression Set			ISO 815
73°F (23°C), 72.0 hr	22 %	22 %	
158°F (70°C), 22.0 hr	35 %	35 %	
212°F (100°C), 22.0 hr	36 %	36 %	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Shore Hardness (Shore A)	60	60	ISO 868

#### Additional Properties

Properties are measured using injection molded plaques.

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80.0 °C
Drying Time	3.0 hr	3.0 hr
Processing (Melt) Temp	338 to 374 °F	170 to 190 °C
Mold Temperature	86.0 to 140 °F	30.0 to 60.0 °C
Injection Rate	Fast	Fast

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

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