OnFlex™-V 2470A-E0248

Thermoplastic Vulcanizate

Key Characteristics

Product Description

OnFlex™-V provides the performance of traditional vulcanised rubber, but with the processability of a thermoplastic. OnFlex™-V 2400 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 extrusion processes, providing a good surface quality and throughput. Furthermore, this range of compounds is stabilized with a unique, patent pending stabilization system that offers excellent heat ageing resistance in addition to metal deactivation. In addition to this, OnFlex™-V 2400 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 and weathering resistance.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Additive	• Heat Stabilizer		
Features	• Copper Contact Stabilized	• Heat Stabilized	
Uses	• Automotive Applications • Construction Applications	• General Purpose • Industrial Applications	• Wire & Cable Applications
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.940 g/cm³	0.940 g/cm³	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (100% Strain)	392 psi	2.70 MPa	ISO 37
Tensile Stress (300% Strain)	638 psi	4.40 MPa	ISO 37
Tensile Stress (Break)	1650 psi	11.4 MPa	ISO 37
Tensile Elongation (Break)	680 %	680 %	ISO 37
Tear Strength	170 lbf/in	30 kN/m	ISO 34-1
Compression Set			ISO 815
73°F (23°C), 72.0 hr	40 %	40 %	
158°F (70°C), 22.0 hr	44 %	44 %	
212°F (100°C), 22.0 hr	44 %	44 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A)	70	70	ISO 868
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating - UL (0.0591 in (1.50 mm))	HB	HB	UL 94
Oxygen Index	19 %	19 %	ISO 4589-2

Additional Properties

Tensile properties are measured on an extruded profile.

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

[1] Typical values are not to be construed as specifications.

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