OnFlex™ V 1475A-E0035 Black

Thermoplastic Elastomer

Key Characteristics

Product Description
OnFlex™-V provides the performance of traditional vulcanised rubber, but with the processability of a thermoplastic. OnFlex™-V 1400 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 to offer low fogging. OnFlex™-V 1400 series thermoplastic elastomer compounds can be proccessed by injection molding, extrusion and blow molding. In addition to this OnFlex™-V 1400 series 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 • Latin America	• North America
Features	• General Purpose	• Low Fogging	
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	• Injection Molding

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 (Break)	1020 psi	7.00 MPa	ISO 37
Tensile Elongation (Break)	390 %	390 %	ISO 37
Tear Strength	187 lbf/in	32.8 kN/m	ISO 34-1
Compression Set			ISO 815
158°F (70°C), 22 hr	46 %	46 %	
212°F (100°C), 22 hr	49 %	49 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	75	75	ISO 48-4
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Burning Rate [2]	< 3.9 in/min	< 100 mm/min	ISO 3795
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	
Generic Material Type	Thermoplastic Vulcanizate (TPV)	Thermoplastic Vulcanizate (TPV)	

Properties are measured using injection molded plaques.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	338 to 410 °F	170 to 210 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

Notes

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

[2] Specimen: 355x100x2.0 +/-1mm with smooth surface

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