OnFlex™ HT 65A-3E2428

Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™ HT thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds is specially formulated to deliver very good compression set performance at elevated temperatures and a high heat resistance.

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Abrasion Resistant • Good Weather Resistance	• High Heat Resistance • Low Compression Set	• Ozone Resistant • Without Fillers
Uses	• Automotive Exterior Parts		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.900 g/cm³	0.900 g/cm³	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress [2]			DIN 53504
Across Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	1310 psi	9.00 MPa	
Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	725 psi	5.00 MPa	
Tensile Elongation [2]			DIN 53504
Across Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	780 %	780 %	
Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	540 %	540 %	
Compression Set (158°F (70°C), 22 hr)	34 %	34 %	ISO 815
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness			DIN 53505
Shore A, 3 sec, 73°F (23°C), 0.236 in (6.00 mm), Injection Molded	65	65	

Additional Information

Properties are measured using injection molded plaques.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	356 to 428 °F	180 to 220 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Fast	Fast

Notes

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

[2] 7.9 in/min (200 mm/min)