OnFlex™ HT 80A-3E2561

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. Furthermore, OnFlex™ HT compounds offer excellent mechanical properties, a wide hardness range and good processability.

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Heat Resistance	• Low Compression Set	• Ozone Resistant
Uses	• Pipe Seals		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.00 g/cm³	1.00 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)	1600 psi	11.0 MPa	
Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	1310 psi	9.00 MPa	
Tensile Elongation [2]			DIN 53504
Across Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	750 %	750 %	
Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	650 %	650 %	
Compression Set			ISO 815
14°F (-10°C), 22 hr	42 %	42 %	
73°F (23°C), 72 hr	25 %	25 %	
158°F (70°C), 22 hr	40 %	40 %	
212°F (100°C), 22 hr	42 %	42 %	
248°F (120°C), 22 hr	45 %	45 %	
248°F (120°C), 168 hr	50 %	50 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	80	80	ISO 48-4
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	
Generic Material Type	Styrenic Thermoplastic Elastomer (TES)	Styrenic Thermoplastic Elastomer (TES)	

Properties are measured using injection molded plaques.

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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)

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