Bergaflex™ BFI K H 50A-3E1544

Thermoplastic Elastomer

Key Characteristics

Product Description

Bergaflex BFI K H 50A-3E1544 is an easy processing TPE with excellent mechanical properties, excellent compression set and heat stability. The grade is compatabilized to provide excellent adhesion to polyamide polymers.

General

Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• General Purpose • Good Adhesion	• Good Compression Set • Good Heat Resistance	
Uses	• Appliances • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.17 g/cm³	1.17 g/cm³	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (Break)	464 psi	3.20 MPa	ISO 37
Tensile Elongation (Break)	400 %	400 %	ISO 37
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	50	50	ISO 48-4

Additional Information

Properties are measured using injection molded plaques.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	2.0 hr	2.0 hr
Rear Temperature	356 to 374 °F	180 to 190 °C
Middle Temperature	374 to 410 °F	190 to 210 °C
Front Temperature	401 to 464 °F	205 to 240 °C
Nozzle Temperature	410 to 464 °F	210 to 240 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Fast	Fast
Back Pressure	290 to 1450 psi	2.00 to 10.0 MPa
Screw Speed	40 to 100 rpm	40 to 100 rpm

Injection Notes

Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP).

Bergaflex™ BFI K H 50A-3E1544 has excellent melt stability. Maximum residence times may vary, depending on the size of the barrel. Generally, the barrel should be emptied if it is idle for periods of 8 - 10 minutes or longer.

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Notes

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

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