



Bergaflex™ BFI K 55A-3E837 Natural Thermoplastic Elastomer

Key Characteristics

Product Description	
Bergaflex BFI K 55A-3E837 Natural is compatibilized to provide excellent adhesion to polyamide polymers.	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Features	• General Purpose • Good Adhesion
Uses	• Appliances • Consumer Applications • Automotive Applications • General Purpose • Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.10 g/cm ³	1.10 g/cm ³	ISO 1183
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress (Break)	624 psi	4.30 MPa	ISO 37
Tensile Elongation (Break)	400 %	400 %	ISO 37
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Shore Hardness ²			ISO 7619
Shore A, 10 sec, 0.236 in (6.00 mm), Injection Molded	55	55	

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 ³	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 55A-3E837 Natural 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.

Notes

¹ Typical values are not to be construed as specifications.

² test specimen conditioned for >1h at room temperature prior testing

³ If color masterbatches are used, higher back pressure is necessary.



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