



Bergaflex™ BFI F 40A-3E1196 Transparent

Thermoplastic Elastomer

Key Characteristics

Product Description

Bergaflex™ BFI F 40A-3E1196 Transparent is an easy processing, easy coloring, general purpose TPE designed for a wide variety of applications. High resistance against acids and bases and alcohols. High ozone and UV resistance.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Features	• General Purpose • Good Processability • UV Resistant
RoHS Compliance	• RoHS Compliant
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.880	0.880	ISO 1183
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength (Break, 73°F (23°C))	508 psi	3.50 MPa	ISO 37
Tensile Elongation (Break, 73°F (23°C))	500 %	500 %	ISO 37
Compression Set			ISO 815
73°F (23°C), 72 hr	19 %	19 %	
158°F (70°C), 23 hr	50 %	50 %	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 10 sec)	40	40	ISO 7619

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Rear Temperature	338 to 347 °F	170 to 175 °C
Middle Temperature	347 to 374 °F	175 to 190 °C
Front Temperature	374 to 428 °F	190 to 220 °C
Nozzle Temperature	383 to 428 °F	195 to 220 °C
Mold Temperature	86 to 122 °F	30 to 50 °C
Back Pressure ²	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).

Drying is not Required

Injection Speed: 1 to 3 in/sec
1st Stage - Boost Pressure: 350 to 900 psi
2nd Stage - Hold Pressure: 30% of Boost
Hold Time (Thick Part): 3 to 10 sec
Hold Time (Thin Part): 1 to 3 sec

Notes

¹ Typical values are not to be construed as specifications.

² If color materbatches are used, higher back pressure is necessary.



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