Bergaflex™ BFI 80A-912

Thermoplastic Elastomer

Key Characteristics

Product Description			
Bergaflex™ BFI 80A-912 is an easy processing, general purpose TPE.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific	• Europe	• North America
Features	• General Purpose	• Good Flow	• Good Processability
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.23	1.23	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress [2]			ISO 37
Break, 73°F (23°C), 0.0787 in (2.00 mm)	1310 psi	9.00 MPa	
Tensile Elongation [2]			ISO 37
Break, 73°F (23°C), 0.0787 in (2.00 mm)	500 %	500 %	
Compression Set (73°F (23°C), 72 hr)	25 %	25 %	ISO 815
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	80	80	ISO 48-4

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	329 to 347 °F	165 to 175 °C
Middle Temperature	347 to 383 °F	175 to 195 °C
Front Temperature	365 to 437 °F	185 to 225 °C
Nozzle Temperature	383 to 437 °F	195 to 225 °C
Mold Temperature	68 to 104 °F	20 to 40 °C
Back Pressure	290 to 1450 psi	2.00 to 10.0 MPa
Screw Speed	40 to 100 rpm	40 to 100 rpm

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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 80A-912 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.

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] 7.9 in/min (200 mm/min)

CONTACT INFORMATION

North America
Avon Lake, United States
33587 Walker Road
Avon Lake, OH, United States , 44012
+1 440 930 1000
+1 844 4AVIENT

South America
Sao Paulo, Brazil
Av. Francisco Nakasato, 1700
13295-000 Itupeva
Sao Paulo, Brazil
+55 11 4593 9200

Asia
Shanghai, China
2F, Block C
200 Jinsu Road
Pudong, 201206
Shanghai, China
+86 (0) 21 6028 4888

Europe
Pommerloch, Luxembourg
19 Route de Bastogne
Pommerloch, Luxembourg , L-9638
+352 269 050 35

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