

Bergaflex TM BFI 55A-351 Thermoplastic Elastomer

Key Characteristics

Product Description			
Bergaflex BFI 55A-351 is an	easy processing, general purpose T	PE.	
The material is filled and has	s therefore a high density.		
General			
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeNorth America	
Features	 General Purpose 	 Good Processability 	 Good Processing Stability
Uses	 Consumer Applications 	 General Purpose 	
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 (73°F (23°C), Black)	1.18 g/cm³	1.18 g/cm³	ISO 1183
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ²			DIN 53504
Break, 73°F (23°C), 0.0787 in (2.00 mm)	943 psi	6.50 MPa	
Tensile Elongation ²			DIN 53504
Break, 73°F (23°C), 0.0787 in (2.00 mm)	750 %	750 %	
Compression Set			ISO 815
73°F (23°C), 72 hr	18 %	18 %	
158°F (70°C), 22 hr	41 %	41 %	
212°F (100°C), 22 hr	79 %	79 %	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Shore Hardness ³ (Shore A)	55	55	ISO 7619
Additional Information	Typical Value (English)	Typical Value (SI)	
	Styrenic Thermoplastic Elastomer (TES)	Styrenic Thermoplastic Elastomer (TES)	
Properties are measured using injection mol	ded plaques.		

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	290 to 1450 psi	2.00 to 10.0 MPa	
Screw Speed	40 to 100 rpm	40 to 100 rpm	

Rev: 2018-10-04 Page: 1 of 2

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).

Regrind levels up to 20% can be used with BergaflexTM BFI 55A-351 with minimal property losses, provided that the regrind is free of contamination. To minimize losses during molding, the melt temperature should be as low as possible. The final determination of regrind effectiveness should be determined by the customer.

Bergaflex BFI 55A-351 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

Notes

- ¹ Typical values are not to be construed as specifications.
- ² 7.9 in/min (200 mm/min)
- ³ ±5 Sh A

PolyOne.

Beyond Polymers.

Better Business Solutions. SM

Rev: 2018-10-04 Page: 2 of 2