

# Bergaflex™ BFI 45A-300

Thermoplastic Elastomer

PolyOne Corporation

## Message:

Bergaflex thermoplastic elastomer polymer is mixed with hydrogenated styrene block copolymer. In addition to having OnFlex™The main characteristics of-S products, such as high hardness, good mechanical properties, good processability, good coloring properties, and a large operating temperature range, this series of polymers has excellent cost performance. OnFlex™-S EH polymer is filled with other substances, so it is opaque and has a relatively high density.

General Information			
Features	General		
Uses	Electrical appliances		
	Industrial application		
	Application in Automobile Field		
	General		
	Consumer goods application field		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm <sup>3</sup>	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	45		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (Break)	5.00	MPa	ISO 37
Tensile Elongation (Break)	720	%	ISO 37
Compression Set			ISO 815
23°C, 72 hr	15	%	ISO 815
70°C, 22 hr	50	%	ISO 815
Additional Information	Nominal Value		
General Material Type	Styrene thermoplastic elastomers (TES)		
各项属性值是采用注射模制基板测量得出.			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 - 220	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Fast		
Injection instructions			

Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypopylene (PP).BFI 45A-300 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 RequiredInjection Speed: 1 to 3 in/sec1st Stage - Boost Pressure: 200 to 900 psi2nd Stage - Hold Pressure: 50% of BoostHold Time (Thick Part): 3 to 10 secHold Time (Thin Part): 1 to 3 sec

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