OnFlex™ S 70A-3E1657 Black

Thermoplastic Elastomer

Key Characteristics

Product Description			
OnFlex™ S thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. Onflex S 70A-3E1657 is filled, and is therefore opaque and has a moderately high density.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose	• UV Resistant	
Uses	• Appliances • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.19 g/cm³	1.19 g/cm³	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (Break)	1090 psi	7.50 MPa	ISO 37
Tensile Elongation (Break)	580 %	580 %	ISO 37
Compression Set			ISO 815
73°F (23°C), 72 hr	24 %	24 %	
158°F (70°C), 22 hr	55 %	55 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A)	70	70	ISO 868
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	
Generic Material Type	Styrenic Thermoplastic Elastomer (TES)	Styrenic Thermoplastic Elastomer (TES)	

Properties are measured using injection molded plaques.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	356 to 428 °F	180 to 220 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Fast	Fast

Notes

[1] Typical values are not to be construed as specifications.