OnFlex™ S FR 40A Natural IN

Thermoplastic Elastomer

Key Characteristics

Product Description			
OnFlex™-S FR thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds are specially flame retarded with a highly effective, RoHS compliant halogen based flame retardant system. Furthermore, OnFlex™-S FR compounds offer excellent mechanical properties, good elevated temperature compression set performance, very wide hardness range and good processability.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Features	• Flame Retardant	• Halogenated	
Uses	• Automotive Applications • Business Equipment	• Electrical/Electronic Applications • General Purpose	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.20 g/cm³	1.20 g/cm³	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress [2] (Break)	653 psi	4.50 MPa	ISO 37
Tensile Elongation [2] (Break)	600 %	600 %	ISO 37
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	43	43	ISO 48-4
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.6 mm))	V-0	V-0	UL 94
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	392 to 428 °F	200 to 220 °C
Mold Temperature	104 to 140 °F	40 to 60 °C
Injection Rate	Fast	Fast

Notes

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

[2] 20 in/min (500 mm/min)

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