

OnFlex™ S FR 60A-3S1846 SO1

Thermoplastic Elastomer

Key Characteristics

Product Description			
OnFlex [™] -S FR thermoplasti compounds are specially flau Furthermore, OnFlex [™] -S FF performance, very wide hard	c elastomer compounds are based on me retarded with a highly effective, R R compounds offer excellent mechan Iness range and good processability.	n hydrogenated styrenic blo oHS compliant halogen bas ical properties, good elevate	ck copolymers. This range of ed flame retardant system. d temperature compression set
General			
Material Status	 Commercial: Active 		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Flame Retardant	 Halogenated 	
Uses	Automotive ApplicationsBusiness Equipment	 Electrical/Electronic Applications General Purpose 	Industrial Applications
RoHS Compliance	 RoHS Compliant 		
Forms	Pellets		
Processing Method	 Injection Molding 		

Technical Properties¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ISO 1183
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress (100% Strain)	261 psi	1.80 MPa	ISO 37
Tensile Stress (300% Strain)	580 psi	4.00 MPa	ISO 37
Tensile Stress (Break)	972 psi	6.70 MPa	ISO 37
Tensile Elongation (Break)	510 %	510 %	ISO 37
Tear Strength	154 lbf/in	27.0 kN/m	ISO 34-1
Compression Set			ISO 815
73°F (23°C), 72 hr	17 %	17 %	
158°F (70°C), 22 hr	31 %	31 %	
212°F (100°C), 22 hr	47 %	47 %	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Shore Hardness (Shore A)	60	60	ISO 868
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	V-0	V-0	UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in (2.0 mm)	1760 °F	960 °C	
Oxygen Index	25 %	25 %	ISO 4589-2
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.

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Technical Data Sheet

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.

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