

OnFlex™ S 50A-3E2150 grey VN5955CF

Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™ S thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds are formulated to deliver a great cost/performance ratio in addition to typical OnFlex™ S properties such as a wide hardness range, good mechanical properties, good processability, good colourability and a wide temperature operating range. Being unfilled, OnFlex™ S compounds are translucent and have a low density.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose		
Uses	• Appliances • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Grey		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	50 g/10 min	50 g/10 min	ISO 1133
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress			ISO 37
Across Flow : Break	972 psi	6.70 MPa	
Flow : Break	798 psi	5.50 MPa	
Tensile Elongation			ISO 37
Across Flow : Break	1000 %	1000 %	
Flow : Break	770 %	770 %	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Shore Hardness ² (Shore A)	50	50	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.

² ± 5



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