OnFlex™ S KE 60A-3S1725 Black UV

Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™-S KE thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds are specially compatabilized to provide excellent adhesion to a variety polar substrates including PC, ABS, PC/ABS, ASA and PVC. OnFlex-S KE compounds can be processed by 2K molding or overmoulding, insert moulding or co-extrusion. In addition to this OnFlex-S KE compounds are formulated to provide good compression set performance, even at elevated temperatures, good processability, a wide hardness range, low temperature flexibility, good scratch resistance, good colourability and surface appearance, and excellent mechanical properties.

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion	• Good Scratch Resistance	• UV Resistant
Uses	• Automotive Applications • Consumer Applications	• Industrial Applications • Overmolding	• Power/Other Tools
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Coextrusion	• Multi Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.12 g/cm³	1.12 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	4.3 g/10 min	4.3 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	7.0 cm³/10min	7.0 cm³/10min	ISO 1133
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (100% Strain)	> 319 psi	> 2.20 MPa	ISO 37
Tensile Stress (Break)	1310 psi	9.00 MPa	ISO 37
Tensile Elongation			ISO 37
Across Flow : Break	550 %	550 %	
Flow : Break	530 %	530 %	
Tear Strength			ISO 34-1
Across Flow	200 lbf/in	35.0 kN/m	
Flow	206 lbf/in	36.0 kN/m	
Compression Set			ISO 815
158°F (70°C), 22 hr	80 %	80 %	
212°F (100°C), 22 hr	91 %	91 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	57	57	ISO 48-4
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	
Generic Material Type	Styrenic Thermoplastic Elastomer (TES)	Styrenic Thermoplastic Elastomer (TES)	

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Properties are measured using injection molded plaques. Compression Set values are for parts annealed for 24 hours at 100°C.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	2.0 hr	2.0 hr
Processing (Melt) Temp	392 to 446 °F	200 to 230 °C
Mold Temperature	68 to 104 °F	20 to 40 °C
Injection Rate	Slow-Moderate	Slow-Moderate

Notes

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

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