OnFlex™ S KG 60A-3S2018

Thermoplastic Elastomer

Key Characteristics

Product Description
OnFlex™-S KG thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds are specially compatabilized to provide excellent adhesion to polyamide polymers including PA6, PA6.6, PA11 and PA12. OnFlex™-S KG can be processed by 2K molding or overmolding, insert molding or co-extrusion. In addition to this, OnFlex™-S KG compounds are formulated to provide good processability and a good cost/performance ratio, a wide hardness range, good colourability and good mechanical properties.

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

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.13 g/cm³	1.13 g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow	1.1 to 1.5 %	1.1 to 1.5 %	
Flow	1.6 to 2.0 %	1.6 to 2.0 %	
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (100% Strain)	319 psi	2.20 MPa	ISO 37
Tensile Stress (Break)	508 psi	3.50 MPa	ISO 37
Tensile Elongation (Break)	290 %	290 %	ISO 37
Tear Strength	120 lbf/in	21.0 kN/m	ISO 34-1
Compression Set			ISO 815
73°F (23°C), 72 hr	32 %	32 %	
158°F (70°C), 22 hr	62 %	62 %	
212°F (100°C), 22 hr	81 %	81 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	60	60	ISO 48-4
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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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 500 °F	200 to 260 °C
Mold Temperature	86 to 122 °F	30 to 50 °C
Injection Rate	Moderate	Moderate

Notes

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

[2] Shrinkage after processing is dependent on tool design, wall thickness and processing conditions.
Due to the multitude of factors influencing shrinkage during the processing users should only treat this as a guide and should make their own assessment.
Generally, low processing temperatures will cause an increase in shrinkage of up to -1% (direction of flow). Part geometry may further influence shrinkage by gradually releasing strain.
This may be accelerated by the annealing of parts, such as for 1hr at 80 °C.

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