

PolyOne OnFlex™ S KA 40A-3S1767 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

OnFlex™-S KA 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 KA can be processed by 2K molding or overmolding, insert molding or co-extrusion. In addition to this, OnFlex™-S KA compounds are formulated to provide excellent compression set performance, even at elevated temperatures, a wide hardness range, good colourability and surface appearance, good mechanical properties and excellent UV resistance. Properties are measured using injection molded plaques. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-OnFlex-S-KA-40A-3S1767-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	Across Flow Measured on 100x100x2mm plates, results may vary depending on processing parameters, part geometry and tool design.; Internal Method
	@Thickness 2.00 mm, Time 259000 sec	@Thickness 0.0787 in, Time 72.0 hour	
	0.029 cm/cm	0.029 in/in	Flow Measured on 100x100x2mm plates, results may vary depending on processing parameters, part geometry and tool design.; Internal Method
	@Thickness 2.00 mm, Time 259000 sec	@Thickness 0.0787 in, Time 72.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	ISO 868
Tensile Strength at Break	3.00 MPa	435 psi	ISO 37
Tensile Stress	1.00 MPa	145 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	2.30 MPa	334 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	410 %	410 %	ISO 37
Tear Strength	17.0 kN/m	97.0 pli	ISO 34-1
Compression Set	13 %	13 %	ISO 815
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	
	29 %	29 %	ISO 815

Mechanical Properties	Metric	English	Comments
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
	57 %	57 %	
	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	ISO 815

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 260 °C	392 - 500 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Drying Temperature	100 °C	212 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	Good Adhesion	
	Good UV Resistance	
	High Heat Resistance	
Forms	Pellets	
Generic Material	TPE	
Generic Material Type	Styrenic Thermoplastic Elastomer (TES)	
Generic Name	Thermoplastic Elastomer (TPE)	
Injection Rate	Moderate	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Coextrusion	
	Multi Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	

Uses	Automotive Applications
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Descriptive Properties	Value	Comments
	Consumer Applications	
	Industrial Applications	
	Overmolding	
	Power/Other Tools	

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