

PolyOne OnFlex™ S KE 40A-3S1727 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-OnFlex-S-KE-40A-3S1727-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	ISO 868
Tensile Strength at Break	3.60 MPa	522 psi	ISO 37
Tensile Stress	1.20 MPa	174 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	2.80 MPa	406 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	300 %	300 %	ISO 37
Tear Strength	13.0 kN/m	74.2 pli	ISO 34-1
Compression Set	38 %	38 %	ISO 815
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	
	51 %	51 %	ISO 815
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
	72 %	72 %	ISO 815
	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F	
Drying Temperature	100 °C	212 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	Good Adhesion	
	Scratch Resistant	
Forms	Pellets	
Generic Material	TPE	
Generic Material Type	Styrenic Thermoplastic Elastomer (TES)	
Generic Name	Thermoplastic Elastomer (TPE)	
Injection Rate	Slow-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	
	Consumer Applications	
	Industrial Applications	
	Overmolding	
	Power/Other Tools	

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