

PolyOne OnFlex™ S KG 40A-3S2016 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

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. 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-KG-40A-3S2016-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	ISO 868
Tensile Strength at Break	2.60 MPa	377 psi	ISO 37
Tensile Stress	1.30 MPa	189 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	2.20 MPa	319 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	330 %	330 %	ISO 37
Tear Strength	16.0 kN/m	91.3 pli	ISO 34-1
Compression Set	31 %	31 %	ISO 815
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	
	62 %	62 %	ISO 815
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
	80 %	80 %	ISO 815
	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 260 °C	392 - 500 °F	

Processing Properties	Metric 50.0 °C	English 22 °F	Comments
Drying Temperature	100 °C	212 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	General Purpose	
	Good Adhesion	
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	
	Consumer Applications	
	Industrial Applications	
	Overmolding	
	Power/Other Tools	

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