

PolyOne OnFlex™ S EH 60A-3S7003 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

OnFlex™-S EH thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds are formulated to deliver a great cost/performance ratio in addition to typical OnFlex™-S properties such as a wide hardness range, good mechanical properties, good processability, good colourability and a wide temperature operating range. OnFlex™-S EH compounds are filled, and are therefore opaque and have a moderately high density. 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-EH-60A-3S7003-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	ISO 868
Tensile Strength at Break	5.00 MPa	725 psi	ISO 37
Tensile Stress	2.30 MPa	334 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
Elongation at Break	3.10 MPa	450 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Tear Strength	25.0 kN/m	143 pli	ISO 34-1
Compression Set	25 %	25 %	ISO 815
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	
	51 %	51 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ISO 815
	78 %	78 %	
	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	ISO 815

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 220 °C	356 - 428 °F	

Processing Properties	Metric 50.0 °C	English 40 °F	Comments
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Descriptive Properties	Value	Comments
Features	General Purpose	
Fogging	1.3 mg	DIN 75201B
Forms	Pellets	
Generic Material	TPE	
Generic Material Type	Styrenic Thermoplastic Elastomer (TES)	
Generic Name	Thermoplastic Elastomer (TPE)	
Injection Rate	Fast	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Odor rating	3	VDA 270
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliances	
	Automotive Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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