

PolyOne OnFlex™ S EH 80A-3S7005 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-80A-3S7005-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ISO 868
Tensile Strength at Break	7.00 MPa	1020 psi	ISO 37
Tensile Stress	3.50 MPa	508 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	4.50 MPa	653 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	500 %	500 %	ISO 37
Tear Strength	33.0 kN/m	188 pli	ISO 34-1
Abrasion	311	311	[mm³]; DIN 53516
Compression Set	39 %	39 %	ISO 815
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	
	70 %	70 %	ISO 815
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
	88 %	88 %	ISO 815
	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Glow Wire Test			Flammability Index, IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 220 °C	356 - 428 °F	
Mold Temperature	30.0 - 60.0 °C	86.0 - 140 °F	

Descriptive Properties	Value	Comments
Features	General Purpose	
Fogging	1.5 mg	DIN 75201B; 100°C
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	2.5	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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