

PolyOne OnFlex™ S HS 70A-3E2543 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

This OnFlex™-S HS thermoplastic elastomer compounds is based on hydrogenated styrenic block copolymers. This range of compounds are formulated to deliver high strength and medium-low density 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. 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-HS-70A-3E2543-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ISO 868
Tensile Strength at Break	7.20 MPa	1040 psi	Flow Injection molded; ISO 37
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	10.9 MPa	1580 psi	FlowExtruded; ISO 37
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	11.1 MPa	1610 psi	Across Flow Injection molded; ISO 37
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Elongation at Break	420 %	420 %	Flow Injection molded; ISO 37
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	560 %	560 %	Across Flow Injection molded; ISO 37
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	590 %	590 %	FlowExtruded; ISO 37
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Processing Properties	Metric	English	Comments
Zone 1	170 °C	338 °F	
Zone 2	180 °C	356 °F	
Zone 3	190 °C	374 °F	
Die Temperature	190 - 200 °C	374 - 392 °F	

Processing Properties	Metric ^{180 - 220 °C}	English ^{355 - 428 °F}	Comments
Mold Temperature	30.0 - 60.0 °C	86.0 - 140 °F	

Descriptive Properties	Value	Comments
Features	General Purpose	
	High Strength	
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	
Processing Method	Injection Molding	
	Pipe Extrusion	
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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