

PolyOne OnFlex™ HT 70A-3S2103 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

OnFlex™ HT thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds is specially formulated to deliver very good compression set performance at elevated temperatures and a high heat resistance. Furthermore, OnFlex™ HT compounds offer excellent mechanical properties, a wide hardness range and good processability. 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-HT-70A-3S2103-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in³	ISO 1183
Viscosity	18600 cP	18600 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
	71200 cP	71200 cP	ASTM D3835
	@Shear Rate 1340 1/s, Temperature 200 °C	@Shear Rate 1340 1/s, Temperature 392 °F	
Linear Mold Shrinkage, Flow	0.015 - 0.019 cm/cm @Thickness 2.00 mm, Temperature 23.0 °C	0.015 - 0.019 in/in @Thickness 0.0787 in, Temperature 73.4 °F	Internal Method

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	IRHD; ISO 48
	70 @Temperature 23.0 °C	70 @Temperature 73.4 °F	Injection Molded; DIN 53505
Tensile Strength at Break	7.50 MPa	1090 psi	200 mm/min Flow; DIN 53504
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
	9.40 MPa	1360 psi	200 mm/min Across Flow; DIN 53504
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
Elongation at Break	630 %	630 %	200 mm/min Flow; DIN 53504
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
	800 %	800 %	

Mechanical Properties	Metric	English	Comments
	@ Thickness 2.00 mm, Temperature 23.0 °C	@ Thickness 0.0787 in, Temperature 73.4 °F	200 mm/min Across Flow; DIN 53504
Compression Set	25 %	25 %	ISO 815
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	
	40 %	40 %	ISO 815
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
	43 %	43 %	ISO 815
	@Temperature -10.0 °C, Time 79200 sec	@Temperature 14.0 °F, Time 22.0 hour	
	51 %	51 %	ISO 815
	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	

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	High Heat Resistance	
	Low Compression Set	
	Ozone Resistant	
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	
Regional Availability	Africa & Middle East	
	Asia Pacific	

Descriptive Properties	Europe Value	Comments
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Stress Relaxation	15%	ISO 3384; 23°C; 168hrs, 25% compression, Method A
	23%	ISO 3384; 23°C; 100d, 25% compression, Method A
Uses	Pipe Seals	

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