

## PolyOne OnFlex™ HT 60A-3S2101 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 are in compliance with EN 681-2 and 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-60A-3S2101-Thermoplastic-Elastomer-TPE.php](http://www.lookpolymers.com/polymer_PolyOne-OnFlex-HT-60A-3S2101-Thermoplastic-Elastomer-TPE.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	IRHD; ISO 48
	60	60	Injection Molded; DIN 53505
Tensile Strength at Break	7.90 MPa	1150 psi	200 mm/min Flow; DIN 53504
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
Tensile Strength at Break	10.5 MPa	1520 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	650 %	650 %	200 mm/min Flow; DIN 53504
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
Elongation at Break	840 %	840 %	200 mm/min Across Flow; DIN 53504
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
Compression Set	24 %	24 %	ISO 815
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
Compression Set	33 %	33 %	ISO 815
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
Compression Set	42 %	42 %	

Mechanical Properties	Metric @Temperature 100 °C, Time 79200 sec	English @Temperature 212 °F, Time 22.0 hour	ISO 815 Comments
	43 %	43 %	
	@Temperature 125 °C, Time 79200 sec	@Temperature 257 °F, Time 22.0 hour	ISO 815
	46 %	46 %	
	@Temperature -10.0 °C, Time 259000 sec	@Temperature 14.0 °F, Time 72.0 hour	ISO 815
	65 %	65 %	
	@Temperature 150 °C, Time 79200 sec	@Temperature 302 °F, Time 22.0 hour	ISO 815

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
Change in Shore Hardness in Air	-3 Shore A	DIN 53505; Shore A, 70°C, 168 hr
Change in Tensile Strain at Break in Air	-0.9%	DIN 53504; 70°C, 168 hr, 2.00 mm
Change in Tensile Strength in Air	-0.5%	DIN 53504; 70°C, 168 hr, 2.00 mm
Change in Volume	0.2%	ISO 1817; 70°C, 168 hr, in Water
	10%	ISO 1817; 70°C, 72 hr, in ASTM #1 Oil

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 Descriptive Properties	Injection Molding Value	Comments
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Stress Relaxation	13%	ISO 3384; 23°C; 168hrs, 25% compression, Method A
	31%	ISO 3384; 23°C; 100d, 25% compression, Method A
Uses	Pipe Seals	

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