

PolyOne OnFlex™ S KG 50A-3S2017 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

OnFlex™-S KG thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds are specially compatabilized to provide excellent adhesion to polyamide polymers including PA6, PA6.6, PA11 and PA12. OnFlex™-S KG can be processed by 2K molding or overmolding, insert molding or co-extrusion. In addition to this, OnFlex™-S KG compounds are formulated to provide good processability and a good cost/performance ratio, a wide hardness range, good colourability and good mechanical properties. 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-KG-50A-3S2017-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in³	ISO 1183
Melt Index of Compound	20 g/10 min @Load 5.00 kg, Temperature 190 °C	20 g/10 min @Load 11.0 lb, Temperature 374 °F	cm³/10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	ISO 868
Tensile Strength at Break	3.20 MPa	464 psi	ISO 37
Tensile Stress	1.70 MPa @Strain 100 %	247 psi @Strain 100 %	ISO 37
	2.60 MPa @Strain 300 %	377 psi @Strain 300 %	ISO 37
Elongation at Break	330 %	330 %	ISO 37
Tear Strength	18.0 kN/m	103 pli	ISO 34-1
Compression Set	32 % @Temperature 23.0 °C, Time 259000 sec	32 % @Temperature 73.4 °F, Time 72.0 hour	ISO 815
	62 % @Temperature 70.0 °C, Time 79200 sec	62 % @Temperature 158 °F, Time 22.0 hour	ISO 815
	82 % @Temperature 100 °C, Time 79200 sec	82 % @Temperature 212 °F, Time 22.0 hour	ISO 815

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 260 °C	392 - 500 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Drying Temperature	100 °C	212 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	General Purpose	
	Good Adhesion	
Forms	Pellets	
Generic Material	TPE	
Generic Material Type	Styrenic Thermoplastic Elastomer (TES)	
Generic Name	Thermoplastic Elastomer (TPE)	
Injection Rate	Moderate	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Coextrusion	
	Multi Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Automotive Applications	
	Consumer Applications	
	Industrial Applications	
	Overmolding	
	Power/Other Tools	

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