

PolyOne OnFlex™ V 3050D-S0097 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

OnFlex™-V provides the performance of traditional vulcanised rubber, but with the processability of a thermoplastic. OnFlex™-V 3000 series thermoplastic elastomer compounds are based on a polyolefin phase with a cross-linked EPDM phase dispersed within it. This range of compounds are specially formulated to provide the melt strength and processability required for blow-moulding processes. In addition to this, OnFlex™-V 3000 series thermoplastic elastomer compounds provide excellent colourability (low yellowness), good mechanical properties, excellent flexibility over a wide temperature range, a wide hardness range, and good hydrocarbon, heat ageing and weather resistance. 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-V-3050D-S0097-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ISO 868
Tensile Strength at Break	16.2 MPa	2350 psi	ISO 37
Tensile Stress	8.50 MPa @Strain 100 %	1230 psi @Strain 100 %	ISO 37
	10.0 MPa @Strain 300 %	1450 psi @Strain 300 %	ISO 37
Elongation at Break	600 %	600 %	ISO 37
Compression Set	45 % @Temperature 23.0 °C, Time 259000 sec	45 % @Temperature 73.4 °F, Time 72.0 hour	ISO 815
	70 % @Temperature 70.0 °C, Time 79200 sec	70 % @Temperature 158 °F, Time 22.0 hour	ISO 815
	75 % @Temperature 100 °C, Time 79200 sec	75 % @Temperature 212 °F, Time 22.0 hour	ISO 815

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	

Mold Temperature Processing Properties	30.0 - 60.0 °C Metric	86.0 - 140 °F English	Comments
Drying Temperature	80.0 °C	176 °F	
Dry Time	3.00 hour	3.00 hour	

Descriptive Properties	Value	Comments
Features	General Purpose	
Forms	Pellets	
Generic Material	TPE	
Generic Material Type	Thermoplastic Vulcanizate (TPV)	
Generic Name	Thermoplastic Elastomer (TPE)	
Injection Rate	Fast	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Blow Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Automotive Applications	
	Construction Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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