

Zylog Neoplast® 243 HOFR Thermoplastic Vulcanizate

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

Material Notes:

Neoplast 243 HOFR is a flame retardant thermoplastic vulcanizate (TPV) compound, based on polyolefin chemistry, suitable for Injection Molding and Extrusion applications. RoHS Compliant, UV Stabilized. Information provided by Zylog Plastalloys Pvt. Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zylog-Neoplast-243-HOFR-Thermoplastic-Vulcanizate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D 792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	43	43	ASTM D 2240
	45	45	Heat Aging; ASTM D 2240/ASTM D573
Tensile Strength, Ultimate	@Treatment Temp. 150 °C, Time 605000 sec	@Treatment Temp. 302 °F, Time 168 hour	
	16.7 MPa	2420 psi	500 mm/min; ASTM D 412
Elongation at Break	20.8 MPa	3020 psi	Heat Aging; ASTM D 412/ASTM D 573
	@Treatment Temp. 150 °C, Time 605000 sec	@Treatment Temp. 302 °F, Time 168 hour	
100% Modulus	600 %	600 %	500 mm/min; ASTM D 412
	450 %	450 %	Heat Aging; ASTM D 412/ASTM D 573
Tear Strength	@Treatment Temp. 150 °C, Time 605000 sec	@Treatment Temp. 302 °F, Time 168 hour	
	0.0108 GPa	1.56 ksi	500 mm/min; ASTM D 412
	79.4 kN/m	454 pli	500 mm/min; ASTM D 624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	140 °C	284 °F	Continuous; SAE J 2236
Brittleness Temperature	-50.0 °C	-58.0 °F	ASTM D 746
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	26 %	26 %	ASTM D 2863

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	6.90e+16 ohm-cm	6.90e+16 ohm-cm	ASTM D 257
Dielectric Constant	2.5	2.5	ASTM D 150
Dielectric Strength	31.0 kV/mm	787 kV/in	ASTM D 149

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