

Zylog Neoplast® 173 C Thermoplastic Vulcanizate

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

Material Notes:

Neoplast 173 C is a soft, dynamically vulcanized thermoplastic vulcanizate (TPV), based on polyolefin chemistry, and is intended 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-173-C-Thermoplastic-Vulcanizate.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ASTM D 792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	76	76	ASTM D 2240
	77	77	Heat Aging; ASTM D 2240/ASTM D 573
	@Treatment Temp. 150 °C, Time 605000 sec	@Treatment Temp. 302 °F, Time 168 hour	
Tensile Strength, Ultimate	6.37 MPa	925 psi	500 mm/min; ASTM D 412
	7.06 MPa	1020 psi	Heat Aging; ASTM D 412/ASTM D 573
	@Treatment Temp. 150 °C, Time 605000 sec	@Treatment Temp. 302 °F, Time 168 hour	
Elongation at Break	200 %	200 %	500 mm/min; ASTM D 412
	176 %	176 %	Heat Aging; ASTM D 412/ASTM D 573
	@Treatment Temp. 150 °C, Time 605000 sec	@Treatment Temp. 302 °F, Time 168 hour	
100% Modulus	0.00539 GPa	0.782 ksi	500 mm/min; ASTM D 412
Tear Strength	27.5 kN/m	157 pli	500 mm/min; ASTM D 624
Compression Set	40 %	40 %	ASTM B 395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 °C	266 °F	Continuous; SAE J 2236
Brittleness Temperature	-60.0 °C	-76.0 °F	ASTM D 746

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