

SABIC Innovative Plastics LNP THERMOCOMP WX05502 Polyester Elastomer

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP THERMOCOMP* WX05502 is a compound based on Polyester, TP resin containing Flame Retardant, Glass Fiber, Mineral. Added features of this material include: Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WX05502-Polyester-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.81 g/cc	1.81 g/cc	ASTM D792
Density	1.80 g/cc	0.0650 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0300 %	0.0300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	5 mm/min; ISO 527
	90.0 MPa	13100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.2 %	1.2 %	5 mm/min; ISO 527
	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.2 %	1.2 %	5 mm/min; ISO 527
Tensile Modulus	11.74 GPa	1703 ksi	1 mm/min; ISO 527
	13.24 GPa	1920 ksi	50 mm/min; ASTM D638
Flexural Strength	141 MPa	20500 psi	1.3 mm/min, 50 mm span; ASTM D790
	142 MPa	20600 psi	ISO 178
Flexural Modulus	10.9 GPa	1580 ksi	1.3 mm/min, 50 mm span; ASTM D790
	11.38 GPa	1651 ksi	2 mm/min; ISO 178

Izod Impact, Notched Mechanical Properties	0.180 J/cm Metric	0.337 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	3.37 J/cm	6.31 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/mÂ²	10.5 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	11.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	50.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	27.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	217 Â°C	423 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	221 Â°C @Thickness 3.20 mm	430 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	197 Â°C	387 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	205 Â°C @Thickness 3.20 mm	401 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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