

SABIC Innovative Plastics LNP THERMOCOMP TF002 PU

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

LNP* THERMOCOMP* TF002 is a compound based on Polyurethane resin containing 10% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-TF002-PU.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
	0.610 %	0.610 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	Type I, 5 mm/min; ASTM D638
	40.0 MPa	5800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	42.0 MPa	6090 psi	Type I, 5 mm/min; ASTM D638
	43.0 MPa	6240 psi	5 mm/min; ISO 527
Elongation at Break	53 %	53 %	Type I, 5 mm/min; ASTM D638
	55.4 %	55.4 %	5 mm/min; ISO 527
Elongation at Yield	32.5 %	32.5 %	Type I, 5 mm/min; ASTM D638
	33.6 %	33.6 %	5 mm/min; ISO 527
Tensile Modulus	1.26 GPa	183 ksi	1 mm/min; ISO 527
	1.46 GPa	212 ksi	50 mm/min; ASTM D638
Flexural Strength	26.0 MPa	3770 psi	ISO 178
Flexural Modulus	0.900 GPa	131 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	0.950 GPa Metric	138 ksi English	2 mm/min ISO 178 Comments
Izod Impact, Notched	3.34 J/cm	6.26 ft-lb/in	ASTM D256
Izod Impact, Unnotched	12.3 J/cm	23.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	31.0 kJ/mÂ²	14.8 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	129 kJ/mÂ²	61.4 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	29.0 J @Temperature 23.0 Â°C	21.4 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	24.0 J	17.7 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	89.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	49.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	172 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	95.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	148 Â°C	298 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	152 Â°C @Thickness 3.20 mm	306 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	61.0 Â°C	142 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	67.0 Â°C @Thickness 3.20 mm	153 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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