

SABIC Innovative Plastics LNP THERMOCOMP TF006 PU

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

LNP THERMOCOMP TF006 is a compound based on Polyurethane containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-TF006-PU.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Moisture Absorption	0.360 %	0.360 %	50% RH, 24 hrs; ASTM D570
	0.500 %	0.500 %	23 [°] C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	Type I, 5 mm/min; ASTM D638
	51.0 MPa	7400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
	51.0 MPa	7400 psi	5 mm/min; ISO 527
Elongation at Break	16 %	16 %	Type I, 5 mm/min; ASTM D638
	16 %	16 %	5 mm/min; ISO 527
Elongation at Yield	15.5 %	15.5 %	5 mm/min; ISO 527
	16.3 %	16.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.48 GPa	215 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Flexural Strength	58.0 MPa	8410 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.69 GPa	245 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.18 GPa	316 ksi	2 mm/min; ISO 178
Izod Impact, Notched	5.12 J/cm	9.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	NB1751; ASTM D4812
Izod Impact, Notched (ISO)	41.0 kJ/m ²	19.5 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	131 kJ/m ²	62.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	19.0 J	14.0 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	17.0 J	12.5 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 Âµm/m-Â°C	15.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	28.4 Âµm/m-Â°C	15.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	130 Âµm/m-Â°C	72.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	131 Âµm/m-Â°C	72.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	167 Â°C	333 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	167 Â°C	333 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	78.0 Â°C	172 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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