

SABIC Innovative Plastics LNP THERMOCOMP TH0300B PU

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

LNP* Thermocomp* Th0300B is a compound based on Polyurethane containing proprietary fillers. Characteristics of this grade are High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-TH0300B-PU.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.02 g/cc	3.02 g/cc	ASTM D792
Density	3.01 g/cc	0.109 lb/in ³	ASTM D792
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	14.0 MPa	2030 psi	Type I, 5 mm/min; ASTM D638
	15.0 MPa	2180 psi	5 mm/min; ISO 527
Tensile Strength, Yield	18.0 MPa	2610 psi	Type I, 5 mm/min; ASTM D638
	18.0 MPa	2610 psi	5 mm/min; ISO 527
Elongation at Break	31.2 %	31.2 %	Type I, 5 mm/min; ASTM D638
	31.3 %	31.3 %	5 mm/min; ISO 527
Elongation at Yield	11.5 %	11.5 %	Type I, 5 mm/min; ASTM D638
	11.5 %	11.5 %	5 mm/min; ISO 527
Tensile Modulus	1.09 GPa	158 ksi	1 mm/min; ISO 527
	1.24 GPa	180 ksi	50 mm/min; ASTM D638
Flexural Strength	18.0 MPa	2610 psi	ISO 178
Flexural Modulus	0.990 GPa	144 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 1.00 GPa	English 150 ksi	Comments 2 mm/min; ISO 178
Izod Impact, Notched	1.58 J/cm	2.96 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.3 J/cm	28.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	118 kJ/mÂ²	56.1 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	22.0 J @Temperature 23.0 Â°C	16.2 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	15.0 J	11.1 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	99.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	55.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	109 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	60.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	92.0 Â°C	198 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	92.0 Â°C @Thickness 3.20 mm	198 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	48.0 Â°C	118 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	49.0 Â°C @Thickness 3.20 mm	120 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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