

SABIC Innovative Plastics LNP THERMOCOMP TH0450C PUR (Asia Pacific)

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

LNP* Thermocomp* TH0450C is a compound based on Polyurethane resin containing High Specific Gravity Filler. Added features of this material include: High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-TH0450C-PUR-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	4.50 g/cc	0.163 lb/in ³	ASTM D792
	4.50 g/cc	0.163 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.140 %	0.140 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0057 cm/cm	0.0057 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0057 cm/cm	0.0057 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	13.0 MPa	1890 psi	ASTM D638
	13.0 MPa	1890 psi	ISO 527
Tensile Strength, Yield	15.0 MPa	2180 psi	ASTM D638
	16.0 MPa	2320 psi	ISO 527
Elongation at Break	23.1 %	23.1 %	ISO 527
	27.3 %	27.3 %	ASTM D638
Elongation at Yield	8.0 %	8.0 %	ISO 527
	8.5 %	8.5 %	ASTM D638

Tensile Modulus Mechanical Properties	1.17 GPa Metric	170 ksi English	1 mm/min; ISO 527 Comments
	1.33 GPa	193 ksi	50 mm/min; ASTM D638
Flexural Strength	20.0 MPa	2900 psi	ASTM D790
	21.0 MPa	3050 psi	ISO 178
Flexural Modulus	0.990 GPa	144 ksi	ASTM D790
	1.13 GPa	164 ksi	ISO 178
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.0 J/cm	20.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	74.0 kJ/m ²	35.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J	12.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	12.0 J	8.85 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.4 Åµm/m-Å°C	43.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	78.1 Åµm/m-Å°C	43.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	84.6 Åµm/m-Å°C	47.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	84.6 Åµm/m-Å°C	47.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	46.0 Å°C	115 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	46.0 Å°C @Thickness 3.20 mm	115 Å°F @Thickness 0.126 in	

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