

SABIC Innovative Plastics LNP THERMOCOMP TH0815A

Category : Polymer , Thermoplastic

Material Notes:

LNP* THERMOCOMP* TH0815A 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-TH0815A.php

Physical Properties	Metric	English	Comments
Density	8.15 g/cc	0.294 lb/in ³	ASTM D792
	8.15 g/cc	0.294 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0048 cm/cm	0.0048 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0049 cm/cm	0.0049 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	16.0 MPa	2320 psi	ASTM D638
	17.0 MPa	2470 psi	ISO 527
Tensile Strength, Yield	18.0 MPa	2610 psi	ASTM D638
	19.0 MPa	2760 psi	ISO 527
Elongation at Break	25.4 %	25.4 %	ASTM D638
	26.5 %	26.5 %	ISO 527
Elongation at Yield	13.2 %	13.2 %	ASTM D638
	13.7 %	13.7 %	ISO 527
Tensile Modulus	1.12 GPa	162 ksi	1 mm/min; ISO 527

Mechanical Properties	1.33 GPa Metric	193 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	20.0 MPa	2900 psi	ASTM D790
	21.0 MPa	3050 psi	ISO 178
Flexural Modulus	1.39 GPa	202 ksi	ISO 178
	1.52 GPa	220 ksi	ASTM D790
Izod Impact, Notched	1.44 J/cm	2.70 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.57 J/cm	19.80 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	73.0 kJ/m ²	34.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J	11.8 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	86.4 Åµm/m-Å°C	48.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	87.7 Åµm/m-Å°C	48.7 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	72.0 Åµm/m-Å°C	40.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	72.5 Åµm/m-Å°C	40.3 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)	44.0 Å°C	111 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	42.0 Å°C	108 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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