

SABIC Innovative Plastics LNP THERMOCOMP AB002 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* THERMOCOMP* AB002 is a compound based on ABS resin containing 10% Glass Bead.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-AB002-ABS.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Moisture Absorption	0.220 %	0.220 %	50% RH, 24 hrs; ASTM D570
	0.360 %	0.360 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa	4350 psi	5 mm/min; ISO 527
	32.0 MPa	4640 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	34.0 MPa	4930 psi	5 mm/min; ISO 527
	35.0 MPa	5080 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	24 %	24 %	5 mm/min; ISO 527
	29 %	29 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.2 %	2.2 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min; ISO 527
	2.75 GPa	399 ksi	50 mm/min; ASTM D638
Flexural Strength	60.0 MPa	8700 psi	ISO 178
	63.0 MPa	9140 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Yield Strength Mechanical Properties	64.0 MPa Metric	9280 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	2.41 GPa	350 ksi	2 mm/min; ISO 178
	2.59 GPa	376 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.25 J/cm	2.34 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.57 J/cm	10.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/m ²	16.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	87.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	89.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	49.4 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
	93.0 Â°C @Thickness 3.20 mm	199 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	79.0 Â°C	174 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	81.0 Â°C @Thickness 3.20 mm	178 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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