

SABIC Innovative Plastics LNP THERMOCOMP AFB42 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* THERMOCOMP* AFB42 is a compound based on ABS containing 10% Glass Fiber, 20% Glass Bead.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-AFB42-ABS.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.110 %	0.110 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	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	48.0 MPa	6960 psi	5 mm/min; ISO 527
	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	19.0 MPa	2760 psi	5 mm/min; ISO 527
	28.0 MPa	4060 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D638
	1.7 %	1.7 %	5 mm/min; ISO 527
Tensile Modulus	4.75 GPa	689 ksi	1 mm/min; ISO 527
	9.40 GPa	1360 ksi	50 mm/min; ASTM D638
Flexural Strength	76.0 MPa	11000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.92 GPa	714 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.44 GPa	1370 ksi	
Izod Impact, Notched	2.90 J/cm	5.43 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	19.0 kJ/m ²	9.04 ft-lb/in ²	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	102 Â°C	216 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	102 Â°C @Thickness 3.20 mm	216 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Â°C	207 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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