

SABIC Innovative Plastics LNP THERMOCOMP AF003 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* THERMOCOMP* AF003 is a compound based on ABS resin containing 15% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-AF003-ABS.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792
	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Moisture Absorption	0.240 %	0.240 %	50% RH, 24 hrs; ASTM D570
	0.350 %	0.350 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	69.0 MPa	10000 psi	5 mm/min; ISO 527
	70.0 MPa	10200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	5.16 GPa	748 ksi	1 mm/min; ISO 527
	5.35 GPa	776 ksi	50 mm/min; ASTM D638
Flexural Strength	103 MPa	14900 psi	ISO 178
	108 MPa	15700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	112 MPa	16200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.51 GPa	654 ksi	2 mm/min; ISO 178
	4.90 GPa	711 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric J/cm	English lb/in	Comments
Izod Impact, Unnotched	2.96 J/cm	5.55 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	61.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	33.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	68.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	37.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	103 Â°C	217 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	103 Â°C @Thickness 3.20 mm	217 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
	97.0 Â°C @Thickness 3.20 mm	207 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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