

SABIC Innovative Plastics LNP THERMOCOMP AF004L ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* THERMOCOMP* AF004L is a compound based on ABS resin containing 20% Glass Fiber. Added feature of this material is: Low Extractible.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-AF004L-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Moisture Absorption	0.230 %	0.230 %	50% RH, 24 hrs; ASTM D570
	0.280 %	0.280 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.0 MPa	10400 psi	5 mm/min; ISO 527
	77.0 MPa	11200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527
Tensile Modulus	5.66 GPa	821 ksi	1 mm/min; ISO 527
	5.94 GPa	862 ksi	5 mm/min; ASTM D638
Flexural Strength	107 MPa	15500 psi	ISO 178
	109 MPa	15800 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	4.92 GPa	714 ksi	2 mm/min; ISO 178
	5.40 GPa	783 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	3.64 J/cm	6.82 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)	21.0 kJ/m ²	9.99 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 Â°C	8.11 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	49.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	27.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	66.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.7 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
	104 Â°C @Thickness 3.20 mm	219 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Â°C	208 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	99.0 Â°C @Thickness 3.20 mm	210 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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