

SABIC Innovative Plastics LNP THERMOCOMP IF00C PA6.12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* THERMOCOMP* IF00C is a compound based on Nylon 6/12 resin containing 60% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-IF00C-PA612.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.68 g/cc	1.68 g/cc	ASTM D792
Density	1.67 g/cc	0.0603 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.130 %	0.130 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	202 MPa	29300 psi	5 mm/min; ISO 527
	207 MPa	30000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.9 %	1.9 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	20.07 GPa	2911 ksi	1 mm/min; ISO 527
	21.44 GPa	3110 ksi	5 mm/min; ASTM D638
Flexural Strength	306 MPa	44400 psi	ISO 178
	311 MPa	45100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	18.24 GPa	2645 ksi	2 mm/min; ISO 178
	18.5 GPa	2680 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.37 J/cm	2.57 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.5 J/cm	19.7 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	635 kJ/m ²	302 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 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	22.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	12.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	53.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	214 Â°C	417 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	215 Â°C @Thickness 3.20 mm	419 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	198 Â°C	388 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	205 Â°C @Thickness 3.20 mm	401 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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