

SABIC Innovative Plastics LNP THERMOCOMP IX04513C PA 6/12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP THERMOCOMP* IX04513C is a compound based on Nylon 6/12 resin containing Glass Fiber. Added features of this material include:
Clean Compounding System.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-IX04513C-PA-612.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
	1.301 g/cc	0.04700 lb/in ³	ASTM D792
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23°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	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	128 MPa	18600 psi	ISO 527
	130 MPa	18900 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ISO 527
	2.3 %	2.3 %	ASTM D638
Tensile Modulus	8.29 GPa	1200 ksi	1 mm/min; ISO 527
	8.83 GPa	1280 ksi	50 mm/min; ASTM D638
Flexural Strength	187 MPa	27100 psi	ISO 178
	204 MPa	29600 psi	ASTM D790

Flexural Modulus Mechanical Properties	7.11 GPa Metric	1030 ksi English	ISO 178 Comments
	8.08 GPa	1170 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.88 J/cm	12.9 ft-lb/in	ASTM D4812
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)	41.0 kJ/m ²	19.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; 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	40.4 µm/m-°C	22.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	41.4 µm/m-°C	23.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	73.2 µm/m-°C	40.7 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	73.3 µm/m-°C	40.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	192 °C	378 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	197 °C	387 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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