

SABIC Innovative Plastics LNP Thermocomp HX05073 PA 11

Category : Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

LNP THERMOCOMP* HX05073 is a compound based on Nylon 11 resin containing Glass Fiber. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-HX05073-PA-11.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
	1.263 g/cc	0.04563 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.15 %	0.15 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0011 cm/cm	0.0011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0062 cm/cm	0.0062 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0070 cm/cm	0.0060 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527
	134 MPa	19400 psi	ASTM D 638
Elongation at Break	6.2 %	6.2 %	ASTM D 638
	6.3 %	6.3 %	ISO 527
Tensile Modulus	7.08 GPa	1030 ksi	1 mm/min; ISO 527
	7.37 GPa	1070 ksi	50 mm/min; ASTM D 638
Flexural Strength	193 MPa	28000 psi	ISO 178
	195 MPa	28300 psi	ASTM D 790
Flexural Modulus	6.20 GPa	899 ksi	ASTM D 790

Mechanical Properties	Metric 0.64 GPa	English 93.8 ksi	Comments ISO 178
Izod Impact, Notched	2.56 J/cm @Temperature 23.0 Â°C	4.80 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	14.31 J/cm @Temperature 23.0 Â°C	26.81 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	25.0 kJ/mÂ² @Temperature 23.0 Â°C	11.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	87.0 kJ/mÂ² @Temperature 23.0 Â°C	41.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603
	16.0 J @Temperature 23.0 Â°C	11.8 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.3 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	19.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	34.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	19.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	99.7 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	55.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	99.7 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	55.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	174 Â°C	345 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	178 Â°C @Thickness 3.20 mm	352 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China