

SABIC Innovative Plastics LNP THERMOCOMP HX03408 PA11

Category : Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

LNP* Thermocomp* HX03408 is a compound based on Nylon 11 containing Proprietary Fillers. Added feature includes: Clean Compound System

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-HX03408-PA11.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	ASTM D792
Density	1.69 g/cc	0.0611 lb/in ³	ASTM D792
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.120 %	0.120 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.0 MPa	4930 psi	Type I, 5 mm/min; ASTM D638
	34.0 MPa	4930 psi	5 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
	45.0 MPa	6530 psi	5 mm/min; ISO 527
Elongation at Break	36 %	36 %	Type I, 5 mm/min; ASTM D638
	65 %	65 %	5 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
	5.0 %	5.0 %	5 mm/min; ISO 527
Tensile Modulus	1.60 GPa	232 ksi	1 mm/min; ISO 527
	1.77 GPa	257 ksi	5 mm/min; ASTM D638
Flexural Strength	54.0 MPa	7830 psi	ISO 178
Flexural Modulus	1.54 GPa	223 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.0 J/cm	26.2 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)	92.0 kJ/m ²	43.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	21.0 J @Temperature 23.0 Â°C	15.5 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	13.0 J	9.59 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	101 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	56.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	109 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	60.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	153 Â°C	307 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	146 Â°C @Thickness 3.20 mm	295 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Â°C	190 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	47.0 Â°C @Thickness 3.20 mm	117 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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