

SABIC Innovative Plastics LNP Thermocomp PH0390A PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PH0390A is a compound based on Nylon 6 resin. Added features of this material include: High Specific Gravity. 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-PH0390A-PA-6.php

Physical Properties	Metric	English	Comments
Density	3.80 g/cc	0.137 lb/in ³	ISO 1183
	3.812 g/cc	0.1377 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.43 %	0.43 %	23 ^o C / 50% RH; ISO 62
	0.18 % @Time 86400 sec	0.18 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0109 cm/cm	0.0109 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0107 cm/cm	0.0107 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ISO 527
	56.0 MPa	8120 psi	ASTM D 638
Elongation at Break	2.6 %	2.6 %	ASTM D 638
	2.9 %	2.9 %	ISO 527
Tensile Modulus	6.87 GPa	996 ksi	1 mm/min; ISO 527
	7.19 GPa	1040 ksi	50 mm/min; ASTM D 638
Flexural Strength	100 MPa	14500 psi	ASTM D 790
	101 MPa	14600 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	6.37 GPa	920 ksi	ASTM D 790
	6.34 GPa	920 ksi	ISO 178
Izod Impact, Notched	0.320 J/cm @Temperature 23.0 Â°C	0.599 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.41 J/cm @Temperature 23.0 Â°C	6.39 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/mÂ² @Temperature 23.0 Â°C	12.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	29.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	53.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	29.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	54.1 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	30.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	54.1 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	30.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	197 Â°C @Thickness 3.20 mm	387 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	123 Â°C @Thickness 3.20 mm	253 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties

Metric

English

Comments

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