

SABIC Innovative Plastics LNP Thermocomp PH0600A PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PH0600A 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-PH0600A-PA-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	5.90 g/cc	5.90 g/cc	ASTM D 792
Density	5.90 g/cc	0.213 lb/in ³	ISO 1183
	6.00 g/cc	0.217 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23 ^o C / 50% RH; ISO 62
	0.080 % @Time 86400 sec	0.080 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm @Time 86400 sec	0.0060 - 0.0090 in/in @Time 24.0 hour	ASTM D 955
	0.0070 - 0.010 cm/cm @Time 86400 sec	0.0070 - 0.010 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D 638
	50.0 MPa	7250 psi	5 mm/min; ISO 527
Elongation at Break	0.50 %	0.50 %	Type I, 5 mm/min; ASTM D 638
	0.50 %	0.50 %	5 mm/min; ISO 527
Tensile Modulus	11.11 GPa	1611 ksi	1 mm/min; ISO 527
	14.98 GPa	2173 ksi	50 mm/min; ASTM D 638
Flexural Strength	81.0 MPa	11700 psi	1.3 mm/min, 50 mm span; ASTM D 790
	96.0 MPa	13900 psi	ASTM D 790
Flexural Yield Strength	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	9.78 GPa	1420 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	9.79 GPa	1420 ksi	1.4 mm/min, 50 mm span; ASTM D 790
	11.5 GPa	1670 ksi	ASTM D 790
Izod Impact, Notched	0.530 J/cm @Temperature 23.0 Â°C	0.993 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	1.41 J/cm @Temperature 23.0 Â°C	2.64 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	12.0 kJ/mÂ² @Temperature 23.0 Â°C	5.71 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	20.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	38.8 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	196 Â°C	385 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	199 Â°C @Thickness 3.20 mm	390 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	162 Â°C	324 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	169 Â°C @Thickness 3.20 mm	336 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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