

SABIC Innovative Plastics LNP THERMOCOMP PH0460A PA 6 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* Thermocomp* PH0460A is a compound based on Nylon 6 resin containing High Specific Gravity Filler. Added features of this material include: High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PH0460A-PA-6-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	4.49 g/cc	0.162 lb/in ³	ISO 1183
	4.51 g/cc	0.163 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	ASTM D638
	56.0 MPa	8120 psi	ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	0.80 %	0.80 %	ISO 527
	1.0 %	1.0 %	ASTM D638
Elongation at Yield	0.80 %	0.80 %	ISO 527
	0.90 %	0.90 %	ASTM D638
Tensile Modulus	8.43 GPa	1220 ksi	1 mm/min; ISO 527

Mechanical Properties	9.65 GPa Metric	1400 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	93.0 MPa	13500 psi	ISO 178
	96.0 MPa	13900 psi	ASTM D790
Flexural Modulus	7.80 GPa	1130 ksi	ISO 178
	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.44 J/cm	2.70 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 µm/m-°C	23.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	43.2 µm/m-°C	24.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	45.0 µm/m-°C	25.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	45.0 µm/m-°C	25.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	196 °C	385 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	196 °C	385 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	156 °C	313 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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