

SABIC Innovative Plastics LNP THERMOCOMP PH0320A PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PH0320A is a compound based on Nylon 6 resin. 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-PH0320A-PA-6.php

Physical Properties	Metric	English	Comments
Density	3.06 g/cc	0.111 lb/in ³	ISO 1183
	3.071 g/cc	0.1109 lb/in ³	ASTM D792
Moisture Absorption	0.360 %	0.360 %	50% RH, 24 hrs; ASTM D570
	0.490 %	0.490 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0108 cm/cm	0.0108 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	ISO 527
	61.0 MPa	8850 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	ISO 527
	1.4 %	1.4 %	ASTM D638
Tensile Modulus	5.80 GPa	841 ksi	1 mm/min; ISO 527
	6.04 GPa	876 ksi	50 mm/min; ASTM D638
Flexural Strength	91.0 MPa	13200 psi	ASTM D790
	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	5.26 GPa	763 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.61 J/cm	4.89 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)	19.0 kJ/m ²	9.04 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 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	51.8 µm/m-°C	28.8 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	51.8 µm/m-°C	28.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	60.7 µm/m-°C	33.7 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)	192 °C	378 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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