

SABIC Innovative Plastics LNP THERMOCOMP PH0400CX PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* THERMOCOMP* PH0400CX is a compound based on Nylon 6 resin. Added feature of this grade is: High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PH0400CX-PA-6.php

Physical Properties	Metric	English	Comments
Density	4.00 g/cc	0.145 lb/in ³	ASTM D792
	4.00 g/cc	0.145 lb/in ³	ISO 1183
Moisture Absorption	0.170 %	0.170 %	50% RH, 24 hrs; ASTM D570
	0.260 %	0.260 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0044 - 0.0046 cm/cm	0.0044 - 0.0046 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0081 - 0.0083 cm/cm	0.0081 - 0.0083 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	92.0 MPa	13300 psi	5 mm/min; ISO 527
	94.0 MPa	13600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	92.0 MPa	13300 psi	5 mm/min; ISO 527
	94.0 MPa	13600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D638
	1.5 %	1.5 %	5 mm/min; ISO 527
	1.6 %	1.6 %	Flexural Strain, break, 2 mm/min; ISO 178
Elongation at Yield	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D638
	1.4 %	1.4 %	5 mm/min; ISO 527
Tensile Modulus	13.98 GPa	2028 ksi	1 mm/min; ISO 527
	17.7 GPa	2570 ksi	50 mm/min; ASTM D638
Flexural Strength	157 MPa	22800 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Yield Strength Mechanical Properties	153 MPa Metric	22200 psi English	2 mm/min; ISO 178 Comments
	155 MPa	22500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.9 GPa	1870 ksi	1.3 mm/min, 50 mm span; ASTM D790
	13.26 GPa	1923 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.710 J/cm	1.33 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.31 J/cm	8.07 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	27.0 kJ/mÂ²	12.8 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	14.5 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	40.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	197 Â°C	387 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	195 Â°C @Thickness 3.20 mm	383 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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