

SABIC Innovative Plastics LNP THERMOCOMP NX07354P PC+ABS (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

This is a PC/ABS compound with improved plating performance, a good candidate for Laser Direct Structuring applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-NX07354P-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0069 cm/cm	0.0069 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0061 cm/cm	0.0061 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	5 mm/min; ISO 527
	42.0 MPa	6090 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	41.0 MPa	5950 psi	5 mm/min; ISO 527
	42.0 MPa	6090 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	72.7 %	72.7 %	Type I, 5 mm/min; ASTM D638
	74.2 %	74.2 %	Flexural Strain, break, 2 mm/min; ISO 178
	77.8 %	77.8 %	5 mm/min; ISO 527
Elongation at Yield	3.4 %	3.4 %	5 mm/min; ISO 527
	3.5 %	3.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.52 GPa	365 ksi	1 mm/min; ISO 527
	2.57 GPa	373 ksi	50 mm/min; ASTM D638
Flexural Strength	72.0 MPa	10400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	73.0 MPa	10600 psi	1.3 mm/min, 50 mm span; ASTM D790
	75.0 MPa	10900 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.43 GPa	352 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.60 GPa	377 ksi	2 mm/min; ISO 178
Izod Impact, Notched	5.30 J/cm	9.93 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	36.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	75.9 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	42.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C	203 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	96.0 Â°C @Thickness 3.20 mm	205 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.8 @Frequency 1.00e+9 Hz	2.8 @Frequency 1.00e+9 Hz	ASTM D150
Dissipation Factor	0.0030 @Frequency 1.00e+9 Hz	0.0030 @Frequency 1.00e+9 Hz	ASTM D150

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