

SABIC Innovative Plastics LNP THERMOCOMP DX11355 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

This is a PC based compound with good plating, surface, mechanical performance and flame retardant (Halogen free), 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-DX11355-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Time 86400 sec	0.0050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 cm/cm @Time 86400 sec	0.0050 in/in @Time 24.0 hour	ASTM D955
Melt Flow	12 g/10 min @Load 1.20 kg, Temperature 300 °C	12 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	70 %	70 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.4 %	5.4 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.60 GPa	377 ksi	50 mm/min; ASTM D638
Flexural Strength	89.0 MPa	12900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	90.0 MPa	13100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	8.00 J/cm	15.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
	62.0 µm/m-°C	34.4 µin/in-°F	

Thermal Properties	Metric	English	Comments
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	67.0 Åµm/m-Å°C	37.2 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	114 Å°C	237 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.600 mm	@Thickness 0.0236 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.92	2.92	IEC 60250
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
Dissipation Factor	0.0070	0.0070	IEC 60250
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	

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