

SABIC Innovative Plastics LNP THERMOCOMP DX11354X PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* Compound DX11354X is a colorable PC based compound with stable plating and RF performance, colored LDS material solution, good surface and processing window, high impact strength. It is a general purpose product available in internal and external parts for Laser Direct Structuring applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX11354X-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Melt Index of Compound	20 g/10 min	20 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 1.20 kg, Temperature 300 ^o C	@Load 2.65 lb, Temperature 572 ^o F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	Type I, 50 mm/min; ASTM D638
	51.0 MPa	7400 psi	50 mm/min; ISO 527
Tensile Strength, Yield	54.0 MPa	7830 psi	50 mm/min; ISO 527
	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	70 %	70 %	Type I, 50 mm/min; ASTM D638
	84 %	84 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.32 GPa	336 ksi	1 mm/min; ISO 527
	2.40 GPa	348 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
	MPa	psi	mm/min, ISO 178
Flexural Modulus	2.38 GPa	345 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.45 GPa	355 ksi	2 mm/min; ISO 178
Izod Impact, Notched	7.00 J/cm	13.1 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	80*10*3; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 µm/m-°C @Temperature -40.0 - 40.0 °C	36.1 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	71.0 µm/m-°C @Temperature -40.0 - 40.0 °C	39.4 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	117 °C	243 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	121 °C @Thickness 3.20 mm	250 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	136 °C	277 °F	Rate A/50; ASTM D1525
	136 °C	277 °F	Rate B/50; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	3.03 @Frequency 1.00e+9 Hz	3.03 @Frequency 1.00e+9 Hz	ASTM D150
Dissipation Factor	0.0066 @Frequency 1.00e+9 Hz	0.0066 @Frequency 1.00e+9 Hz	ASTM D150

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