

SABIC Innovative Plastics LNP THERMOCOMP NX10302 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, surface and mechanical 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-NX10302-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
Water Absorption	0.010 % @Time 86400 sec	0.010 % @Time 24.0 hour	ASTM D570
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 - 0.0065 cm/cm @Time 86400 sec	0.0060 - 0.0065 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0056 cm/cm @Time 86400 sec	0.0050 - 0.0056 in/in @Time 24.0 hour	ASTM D955
Melt Index of Compound	14 g/10 min @Load 5.00 kg, Temperature 260 °C	14 g/10 min @Load 11.0 lb, Temperature 500 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	100 %	100 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.2 %	4.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	50 mm/min; ASTM D638
Flexural Strength	79.0 MPa	11500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	80.0 MPa	11600 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	6.00 J/cm	11.2 ft-lb/in	ASTM D256

Load Impact Unnotched Mechanical Properties	SI Metric	SI English	ASTM D4812 Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.7 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	47.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	91.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	50.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	108 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	226 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Electrical Properties	Metric	English	Comments
Dielectric Constant	2.74 @Frequency 1.00e+9 Hz	2.74 @Frequency 1.00e+9 Hz	IEC 60250
Dissipation Factor	0.0030 @Frequency 1.00e+9 Hz	0.0030 @Frequency 1.00e+9 Hz	IEC 60250

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