

SABIC Innovative Plastics LNP THERMOCOMP DF006LXN PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* THERMOCOMP* DF006LXN is a compound based on Polycarbonate resin containing 30% Glass Fiber. Added features of this material are: Low Extractable, NSF Listed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF006LXN-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
	0.0700 %	0.0700 %	23 ^o C / 50% RH; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	Type I, 5 mm/min; ASTM D638
	114 MPa	16500 psi	5 mm/min; ISO 527
Elongation at Break	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D638
	7.5 %	7.5 %	5 mm/min; ISO 527
Elongation at Yield	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.63 GPa	1250 ksi	50 mm/min; ASTM D638
Flexural Strength	149 MPa	21600 psi	1.3 mm/min, 50 mm span; ASTM D790
	185 MPa	26800 psi	ISO 178
Flexural Modulus	7.86 GPa	1140 ksi	2 mm/min; ISO 178
	8.23 GPa	1190 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.44 J/cm	2.70 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.14 J/cm	17.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	56.0 kJ/m ²	26.6 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 Â°C	293 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	144 Â°C @Thickness 3.20 mm	291 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 Â°C	286 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	140 Â°C @Thickness 3.20 mm	284 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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