

SABIC Innovative Plastics LNP THERMOCOMP DFB03GR PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* THERMOCOMP* DFB03GR is a compound based on Polycarbonate resin containing a mixture of Glass Fiber and Glass Beads. Added features of this material include: Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DFB03GR-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Water Absorption	0.16 %	0.16 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	78.0 MPa	11300 psi	5 mm/min; ISO 527
Elongation at Break	4.7 %	4.7 %	5 mm/min; ISO 527
	6.1 %	6.1 %	Flexural Strain, break, 2 mm/min; ISO 178
Tensile Modulus	3.97 GPa	576 ksi	1 mm/min; ISO 527
Flexural Yield Strength	119 MPa	17300 psi	2 mm/min; ISO 178
Flexural Modulus	3.40 GPa	493 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 Åµm/m-Å°C	25.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	74.0 Åµm/m-Å°C	41.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	144 Å°C	291 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	137 A°C	279 A°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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