

SABIC Innovative Plastics LNP THERMOCOMP DF008 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP* DF008 is a compound based on Polycarbonate resin containing 40% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF008-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
	1.52 g/cc	0.0549 lb/in ³	ASTM D792
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
	0.0800 %	0.0800 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	132 MPa	19100 psi	5 mm/min; ISO 527
	141 MPa	20500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.5 %	6.5 %	Type I, 5 mm/min; ASTM D638
	6.9 %	6.9 %	5 mm/min; ISO 527
Tensile Modulus	14.35 GPa	2081 ksi	1 mm/min; ISO 527
	22.44 GPa	3255 ksi	50 mm/min; ASTM D638
Flexural Strength	205 MPa	29700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	11.19 GPa	1623 ksi	2 mm/min; ISO 178
	11.56 GPa	1677 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.22 J/cm	13.5 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	141 Â°C	286 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	138 Â°C @Thickness 3.20 mm	280 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	134 Â°C @Thickness 3.20 mm	273 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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