

SABIC Innovative Plastics LNP THERMOCOMP DF002H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP* DF002H is a compound based on Polycarbonate resin containing 10% Glass Fiber. Added feature includes: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF002H-PC.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.200 %	0.200 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.0 MPa	10700 psi	5 mm/min; ISO 527
	75.0 MPa	10900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	80.0 MPa	11600 psi	5 mm/min; ISO 527
	81.0 MPa	11700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.6 %	5.6 %	Type I, 5 mm/min; ASTM D638
	5.7 %	5.7 %	5 mm/min; ISO 527
Elongation at Yield	3.8 %	3.8 %	5 mm/min; ISO 527
	3.9 %	3.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.17 GPa	605 ksi	1 mm/min; ISO 527
	4.25 GPa	616 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	138 MPa	20000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.95 GPa	573 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	4.11 GPa	596 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.810 J/cm	1.52 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.83 J/cm	16.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	54.0 kJ/m ²	25.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J @Temperature 23.0 Â°C	13.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	10.0 J	7.38 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.5 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	25.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	53.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	146 Â°C @Thickness 3.20 mm	295 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 Â°C @Thickness 3.20 mm	286 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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