

SABIC Innovative Plastics LNP THERMOCOMP DF008ERH PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP® DF008ERH is a compound based on Polycarbonate resin containing 40% Glass Fiber. Added features of this material include: Easy Molding, Mold Release, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF008ERH-PC.php

Physical Properties	Metric	English	Comments
Moisture Absorption	0.120 %	0.120 %	23Â°C / 50% RH; ISO 62
	0.930 %	0.930 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0016 cm/cm	0.0016 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0035 cm/cm	0.0035 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	136 MPa	19700 psi	ASTM D638
	136 MPa	19700 psi	ISO 527
Elongation at Break	2.2 %	2.2 %	ISO 527
	2.3 %	2.3 %	ASTM D638
Tensile Modulus	11.17 GPa	1620 ksi	1 mm/min; ISO 527
	11.81 GPa	1713 ksi	50 mm/min; ASTM D638
Flexural Strength	203 MPa	29400 psi	ISO 178
	204 MPa	29600 psi	ASTM D790
Flexural Modulus	10.97 GPa	1591 ksi	ISO 178
	11.26 GPa	1633 ksi	ASTM D790

Izod Impact, Notched Mechanical Properties	2.18 J/cm Metric	4.08 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	8.06 J/cm	15.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	53.0 kJ/m ²	25.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J	9.59 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.5 Åµm/m-Å°C	18.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	32.6 Åµm/m-Å°C	18.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	35.0 Åµm/m-Å°C	19.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	35.1 Åµm/m-Å°C	19.5 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	137 Å°C	279 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	136 Å°C	277 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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