

SABIC Innovative Plastics LNP Thermocomp DF002L PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP® DF002L is a compound based on Polycarbonate resin containing Glass Fiber. Added features of this material include:
Low Extractible. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-DF002L-PC.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D 792
	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.21 %	0.21 %	23°C / 50% RH; ISO 62
	0.13 % @Time 86400 sec	0.13 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	Type I, 5 mm/min; ASTM D 638
	72.0 MPa	10400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	74.0 MPa	10700 psi	Type I, 5 mm/min; ASTM D 638
	75.0 MPa	10900 psi	5 mm/min; ISO 527
Elongation at Break	5.6 %	5.6 %	5 mm/min; ISO 527
	6.8 %	6.8 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	4.2 %	4.2 %	5 mm/min; ISO 527
	4.5 %	4.5 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	3.80 GPa	551 ksi	50 mm/min; ASTM D 638
	3.89 GPa	564 ksi	1 mm/min; ISO 527
Flexural Modulus	3.59 GPa	521 ksi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	MetricPa	English	CommentsISO 178
Izod Impact, Notched	1.35 J/cm @Temperature 23.0 Â°C	2.53 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	12.27 J/cm @Temperature 23.0 Â°C	22.99 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	82.0 kJ/mÂ² @Temperature 23.0 Â°C	39.0 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	23.0 J	17.0 ft-lb	Multiaxial Impact; ISO 6603
	30.0 J @Temperature 23.0 Â°C	22.1 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	147 Â°C	297 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 Â°C @Thickness 3.20 mm	297 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	139 Â°C	282 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	139 Â°C @Thickness 3.20 mm	282 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China