

SABIC Innovative Plastics LNP THERMOCOMP DF0046P PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* DF0046P is a compound based on Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include: Exceptional Processing, Flame Retardant, Non-Brominated & Non-Chlorinated Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF0046P-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	23Â°C / 50% RH; ISO 62
	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 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	95.0 MPa	13800 psi	ASTM D638
	97.0 MPa	14100 psi	ISO 527
Elongation at Break	3.3 %	3.3 %	ISO 527
	3.6 %	3.6 %	ASTM D638
Tensile Modulus	6.16 GPa	893 ksi	50 mm/min; ASTM D638
	6.92 GPa	1000 ksi	1 mm/min; ISO 527
Flexural Strength	137 MPa	19900 psi	ASTM D790
	151 MPa	21900 psi	ISO 178
Flexural Modulus	5.97 GPa	866 ksi	ASTM D790
	6.56 GPa	951 ksi	ISO 178
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.67 J/cm	8.75 ft-lb/in	ASTM D4812

Mechanical Properties (ISO)	Metric (J/m ²)	English (lb/in ²)	Comments (ISO 180/1A)
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.3 Åµm/m-Å°C	11.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	46.8 Åµm/m-Å°C	26.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	69.7 Åµm/m-Å°C	38.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	113 Åµm/m-Å°C	62.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	140 Å°C	284 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	138 Å°C	280 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	137 Å°C	279 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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