

SABIC Innovative Plastics LNP THERMOCOMP DF00A1P PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* DF00A1P is a compound based on Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include: High Modulus, low warpage, Non-Brominated & Non-Chlorinated Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF00A1P-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0025 cm/cm @Time 86400 sec	0.0010 - 0.0025 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0012 - 0.0028 cm/cm @Time 86400 sec	0.0012 - 0.0028 in/in @Time 24.0 hour	ASTM D955
Melt Flow	21 g/10 min @Load 2.16 kg, Temperature 300 Â°C	21 g/10 min @Load 4.76 lb, Temperature 572 Â°F	ASTM D1238
Melt Index of Compound	12 g/10 min @Load 2.16 kg, Temperature 300 Â°C	12 g/10 min @Load 4.76 lb, Temperature 572 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	126 MPa	18300 psi	ISO 527
	170 MPa	24700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D638
	1.4 %	1.4 %	ISO 527
Tensile Modulus	17.0 GPa	2470 ksi	5 mm/min; ASTM D638
	17.4 GPa	2520 ksi	1 mm/min; ISO 527
Flexural Strength	168 MPa	24400 psi	ISO 178
	171 MPa	24800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	14.18 GPa	2057 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.81 J/cm	3.39 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	13.0 Åµm/m-Å°C	7.22 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	42.0 Åµm/m-Å°C	23.3 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)	104 Å°C	219 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	96.0 Å°C	205 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	

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