

SABIC Innovative Plastics LNP THERMOCOMP DF0081PI PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* DF0081PI is a compound based on Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include: High Modulus, good flatness, Non-Brominated & Non-Chlorinated Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF0081PI-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0041 cm/cm	0.0041 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	123 MPa	17800 psi	5 mm/min; ISO 527
	130 MPa	18900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.7 %	1.7 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	1.9 %	1.9 %	Flexural Strain, break, 2 mm/min; ISO 178
Tensile Modulus	12.5 GPa	1810 ksi	1 mm/min; ISO 527
	12.7 GPa	1840 ksi	50 mm/min; ASTM D638
Flexural Strength	170 MPa	24700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	1.3 mm/min, 50 mm span; ASTM D790
	10.8 GPa	1570 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.810 J/cm	1.52 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.64 J/cm	4.95 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 Â°C @Thickness 3.20 mm	230 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	102 Â°C	216 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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