

SABIC Innovative Plastics LNP Thermocomp DFZ42P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* DFZ42P is a compound based on Polycarbonate resin containing Glass Fiber. Added features of this material include: Exceptional Processing. 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-DFZ42P-PC.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
	1.47 g/cc	0.0531 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.29 %	0.29 %	23 ^o C / 50% RH; ISO 62
	0.24 % @Time 86400 sec	0.24 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 in/in @Time 24.0 hour	ASTM D 955
	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	78.0 MPa	11300 psi	Type I, 5 mm/min; ASTM D 638
	86.0 MPa	12500 psi	5 mm/min; ISO 527
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	6.30 GPa	914 ksi	50 mm/min; ASTM D 638
	6.60 GPa	957 ksi	1 mm/min; ISO 527
Flexural Strength	131 MPa	19000 psi	1.3 mm/min, 50 mm span; ASTM D 790
	137 MPa	19900 psi	ISO 178
Flexural Modulus	6.11 GPa	886 ksi	2 mm/min; ISO 178
	6.49 GPa	941 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	0.510 J/cm	0.955 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	
Izod Impact, Unnotched	5.14 J/cm @Temperature 23.0 °C	9.63 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	31.0 kJ/m ² @Temperature 23.0 °C	14.8 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.7 µm/m-°C @Temperature -30.0 - 30.0 °C	18.2 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
CTE, linear, Transverse to Flow	67.4 µm/m-°C @Temperature -30.0 - 30.0 °C	37.4 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	136 °C	277 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	136 °C @Thickness 3.20 mm	277 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	132 °C @Thickness 3.20 mm	270 °F @Thickness 0.126 in	unannealed; ASTM D 648

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