

SABIC Innovative Plastics LNP THERMOCOMP DF0049 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP® DF0049 is a compound based on Polycarbonate resin containing 20% Glass Fiber. Added features of this material include: Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF0049-PC.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	103 MPa	14900 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
Tensile Modulus	6.62 GPa	960 ksi	50 mm/min; ASTM D638
Flexural Strength	172 MPa	24900 psi	ASTM D790
Flexural Modulus	6.59 GPa	956 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.18 J/cm	15.3 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	14.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	143 $\text{Å}^\circ\text{C}$	289 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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