

SABIC Innovative Plastics LNP THERMOCOMP DF006RXQ PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* THERMOCOMP* DF006RXQ is a compound based on Polycarbonate resin containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF006RXQ-PC.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
	1.424 g/cc	0.05145 lb/in ³	ASTM D792
Water Absorption	0.16 %	0.16 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	115 MPa	16700 psi	5 mm/min; ISO 527
	117 MPa	17000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	116 MPa	16800 psi	5 mm/min; ISO 527
	119 MPa	17300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.9 %	2.9 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.4 %	3.4 %	Flexural Strain, break, 2 mm/min; ISO 178
Elongation at Yield	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
	2.7 %	2.7 %	5 mm/min; ISO 527
Tensile Modulus	6.88 GPa	998 ksi	1 mm/min; ISO 527
	7.71 GPa	1120 ksi	50 mm/min; ASTM D638
Flexural Strength	179 MPa	26000 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	185 MPa	26800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	179 MPa	26000 psi	2 mm/min; ISO 178
	187 MPa	27100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.37 GPa	1070 ksi	2 mm/min; ISO 178
	7.66 GPa	1110 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.48 J/cm	2.77 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.30 J/cm	17.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	22.0 J	16.2 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	15.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
CTE, linear, Transverse to Flow	51.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	28.5 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	140 $\text{Å}^\circ\text{C}$	284 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	140 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	284 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

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