

SABIC Innovative Plastics LNP THERMOCOMP DC0041PQ PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* THERMOCOMP* DC0041PQ is a compound based on Polycarbonate resin containing Carbon Fiber. Added feature of this grade is:
Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DC0041PQ-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0036 cm/cm	0.0036 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	185 MPa	26800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	21.0 GPa	3050 ksi	5 mm/min; ASTM D638
Flexural Strength	260 MPa	37700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	18.0 GPa	2610 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.00 J/cm	9.37 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	ASTM D3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 Åµm/m-Å°C	7.78 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	35.0 Åµm/m-Å°C	19.4 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 -	@Temperature -22.0 -	

Thermal Properties	30.0 Å°C Metric	86.0 Å°F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	86.0 Å°C @Thickness 3.20 mm	187 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	UL 94

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