

SABIC Innovative Plastics LNP Thermocomp DF0069E PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* DF0069E is a compound based on Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include: Flame Retardant. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-DF0069E-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D 792
	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0018 cm/cm	0.0018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0069 cm/cm	0.0069 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	ASTM D 638
	120 MPa	17400 psi	ISO 527
Elongation at Break	6.8 %	6.8 %	ASTM D 638
	7.0 %	7.0 %	ISO 527
Tensile Modulus	11.18 GPa	1622 ksi	1 mm/min; ISO 527
	14.47 GPa	2099 ksi	50 mm/min; ASTM D 638
Flexural Strength	172 MPa	24900 psi	ASTM D 790
	183 MPa	26500 psi	ISO 178
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D 790
	8.80 GPa	1280 ksi	ISO 178

Mechanical Properties	1 38 J/cm Metric	2 59 ft-lb/in English	Comments
Izod Impact, Notched	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	8.43 J/cm @Temperature 23.0 Â°C	15.8 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	14.0 kJ/mÂ² @Temperature 23.0 Â°C	6.66 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	53.0 kJ/mÂ² @Temperature 23.0 Â°C	25.2 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	28.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	51.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	28.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	30.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	17.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	31.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	17.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	148 Â°C	298 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	143 Â°C @Thickness 3.20 mm	289 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	144 Â°C	291 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	142 Â°C @Thickness 3.20 mm	288 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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