

SABIC Innovative Plastics LNP Thermocomp DFZ22E PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* DFZ22E is a compound based on Polycarbonate with Glass and Milled Fiber. Characteristics of this products is Easy Molding. 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-DFZ22E-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D 792
Moisture Absorption at Equilibrium	0.14 %	0.14 %	23Â°C / 50% RH; ISO 62
	0.13 %	0.13 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	71.0 MPa	10300 psi	Type I, 5 mm/min; ASTM D 638
	72.0 MPa	10400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	75.0 MPa	10900 psi	Type I, 5 mm/min; ASTM D 638
	75.0 MPa	10900 psi	5 mm/min; ISO 527
Elongation at Break	4.5 %	4.5 %	5 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	3.1 %	3.1 %	5 mm/min; ISO 527
	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	4.96 GPa	719 ksi	1 mm/min; ISO 527
	5.12 GPa	743 ksi	50 mm/min; ASTM D 638
Flexural Strength	130 MPa	18900 psi	ISO 178
Flexural Yield Strength	132 MPa	19100 psi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	4.44 GPa	644 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.730 J/cm @Temperature 23.0 Â°C	1.37 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	8.21 J/cm @Temperature 23.0 Â°C	15.4 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 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
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
	15.0 J @Temperature 23.0 Â°C	11.1 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	4.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	2.22 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	7.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	3.89 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	144 Â°C	291 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	144 Â°C @Thickness 3.20 mm	291 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	139 Â°C	282 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	138 Â°C @Thickness 3.20 mm	280 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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