

LNP™ THERMOCOMP™ DFZ22P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP DFZ22P is a compound based on Polycarbonate resin containing Glass Fiber, Milled Glass. Added features of this material include: Exceptional Processing.

Also known as: LNP* THERMOCOMP* Compound DF-1004 EP MG

Product reorder name: DFZ22P

General Information			
Filler / Reinforcement	Grinding Glass/Fiberglass		
Features	Workability, good		
Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.40	%	ASTM D955
Transverse flow: 24 hours	0.60	%	ASTM D955
Vertical flow direction: 24 hours	0.61	%	ISO 294-4
Flow direction: 24 hours	0.40	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4270	MPa	ASTM D638
--	4410	MPa	ISO 527-2/1
Tensile Strength			
Fracture	67.6	MPa	ASTM D638
Fracture	49.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	6.0	%	ASTM D638
Fracture	4.8	%	ISO 527-2
Flexural Modulus			
--	3380	MPa	ASTM D790
--	3900	MPa	ISO 178
Flexural Strength			
--	124	MPa	ASTM D790
--	132	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256

23°C ²	5.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	560	J/m	ASTM D4812
23°C ³	52	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.00	J	ASTM D3763
--	8.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	132	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	133	°C	ISO 75-2/Af
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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