

LNP™ THERMOCOMP™ DF0049P compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP THERMOCOMP DF0049P is a compound based on Polycarbonate resin containing Glass Fiber. Added features of this material include: Exceptional Processing, Flame Retardant.
Also known as: LNP* THERMOCOMP* Compound DF-1004 EP FR
Product reorder name: DF0049P

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Workability, good		
	Flame retardancy		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.40 - 0.60	%	ASTM D955
Vertical flow direction: 24 hours	0.40 - 0.60	%	ISO 294-4
Flow direction: 24 hours	0.10 - 0.30	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6850	MPa	ASTM D638
--	6950	MPa	ISO 527-2/1
Tensile Strength (Break)	108	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Fracture	3.0	%	ASTM D638
Fracture	2.7	%	ISO 527-2
Flexural Modulus			
--	6090	MPa	ASTM D790
--	6210	MPa	ISO 178
Flexural Strength	165	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	7.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	280	J/m	ASTM D4812
23°C ³	48	kJ/m ²	ISO 180/1U

Instrumented Dart Impact			
23°C, Energy at Peak Load	11.4	J	ASTM D3763
--	9.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	135	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	135	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	2.3E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	2.4E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	7.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (0.850 mm, Testing by SABIC)	V-0		UL 94
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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