

LNP™ THERMOCOMP™ DF0049P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP DF0049P is a compound based on Polycarbonate resin containing 20% 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			
UL YellowCard	E121562-101284105	E121562-101358201	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
	Good Processability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.40 to 0.60	%	
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			
Break	3.0	%	ASTM D638
Break	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, 3.20 mm	135	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	135	°C	ISO 75-2/Af
CLTE			
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
Transverse : -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
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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