

LNP™ THERMOCOMP™ ZF0049 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP THERMOCOMP ZF0049 is a compound based on PPO resin containing 20% Glass Fiber. Added feature of this material is: Flame Retardant.

Also known as: LNP* THERMOCOMP* Compound ZF-1004 FR HP

Product reorder name: ZF0049

General Information			
UL YellowCard	E121562-101284453		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.30	g/cm ³	ASTM D792
--	1.29	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.40 to 0.60	%	ASTM D955
Across Flow : 24 hr	0.49	%	ISO 294-4
Flow : 24 hr	0.28	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6890	MPa	ASTM D638
--	6830	MPa	ISO 527-2/1
Tensile Strength			
Yield	88.9	MPa	ASTM D638
Yield	84.0	MPa	ISO 527-2
Break	88.9	MPa	ASTM D638
Break	84.0	MPa	ISO 527-2
Tensile Elongation			
Yield	1.7	%	ASTM D638, ISO 527-2
Break	1.7	%	ASTM D638
Break	1.6	%	ISO 527-2
Flexural Modulus			
--	12400	MPa	ASTM D790
--	6600	MPa	ISO 178
Flexural Strength			
--	241	MPa	ASTM D790
--	118	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	80	J/m	ASTM D256
23°C ²	7.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	420	J/m	ASTM D4812
23°C ³	25	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	14.9	J	ASTM D3763
--	3.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	110	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	111	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	103	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	104	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	5.8E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	4.0E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	3.9E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	277 to 288	°C	
Middle Temperature	288 to 299	°C	
Front Temperature	299 to 310	°C	
Processing (Melt) Temp	299 to 304	°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		
5.	80*10*4 mm		

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