

LNP™ THERMOCOMP™ LF005 compound

Polyetheretherketone

SABIC Innovative Plastics Asia Pacific

Message:

LNP THERMOCOMP LF005 is a compound based on Polyetheretherketone resin containing Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound LF-1005

Product reorder name: LF005

General Information			
Filler / Reinforcement	Glass Fiber		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.50 to 0.70	%	ASTM D955
Across Flow : 24 hr	1.0 to 1.2	%	ASTM D955
Across Flow : 24 hr	1.1	%	ISO 294-4
Flow : 24 hr	0.64	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11700	MPa	ASTM D638
--	11400	MPa	ISO 527-2/1
Tensile Strength			
Yield	157	MPa	ASTM D638
Yield	158	MPa	ISO 527-2
Break	157	MPa	ASTM D638
Break	158	MPa	ISO 527-2
Tensile Elongation			
Yield	2.7	%	ASTM D638, ISO 527-2
Break	2.7	%	
Flexural Modulus			
--	8960	MPa	ASTM D790
--	8600	MPa	ISO 178
Flexural Strength			
--	248	MPa	ASTM D790
--	243	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	91	J/m	ASTM D256
23°C ²	8.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	930	J/m	ASTM D4812
23°C ³	60	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	14.6	J	ASTM D3763
--	3.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	239	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	5.4E-6	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	5.2E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	1.8E-6	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	1.9E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 to 360	°C	
Middle Temperature	366 to 377	°C	
Front Temperature	382 to 393	°C	
Processing (Melt) Temp	382 to 388	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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