

LNP™ THERMOCOMP™ KF002L compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics

Message:

LNP THERMOCOMP KF002L is a compound based on Acetal Homopolymer resin containing Glass Fiber. Added features of this material include: Low Extractible.

Also known as: LNP* THERMOCOMP* Compound KF-1002 LE

Product reorder name: KF002L

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Low extract		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.6 - 1.8	%	ASTM D955
Transverse flow: 24 hours	1.5 - 1.7	%	ASTM D955
Vertical flow direction: 24 hours	1.6	%	ISO 294-4
Flow direction: 24 hours	1.7	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6210	MPa	ASTM D638
--	5600	MPa	ISO 527-2/1
Tensile Strength			
Yield	66.2	MPa	ASTM D638
Yield	65.0	MPa	ISO 527-2
Fracture	63.4	MPa	ASTM D638
Fracture	63.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.2	%	ASTM D638
Yield	2.1	%	ISO 527-2
Fracture	3.4	%	ASTM D638
Fracture	3.2	%	ISO 527-2
Flexural Modulus			
--	4830	MPa	ASTM D790
--	4400	MPa	ISO 178
Flexural Strength			
--	103	MPa	ASTM D790
--	105	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	380	J/m	ASTM D4812
23°C ³	26	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.40	J	ASTM D3763
--	2.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	163	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	162	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	155	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	148	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	1.1E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	1.1E-4	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	5.4E-6	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	6.1E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	177 - 188	°C	
Middle Temperature	193 - 204	°C	
Front Temperature	210 - 221	°C	
Processing (Melt) Temp	199 - 216	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 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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