

LNP™ THERMOCOMP™ KZ002 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP THERMOCOMP KZ002 is a compound based on Acetal containing 10% Milled Glass.

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

Product reorder name: KZ002

General Information			
Filler / Reinforcement	Milled Glass Fiber,10% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 4.0	%	
Across Flow : 24 hr	2.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.18	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.26	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3630	MPa	ASTM D638
--	3420	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	55.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/5
Break ³	53.0	MPa	ASTM D638
Break	54.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	9.6	%	ASTM D638
Yield	10	%	ISO 527-2/5
Break ⁵	19	%	ASTM D638
Break	21	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2770	MPa	ASTM D790
-- ⁷	2950	MPa	ISO 178
Flexural Stress	74.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	42	J/m	ASTM D256
23°C ⁸	4.6	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	820	J/m	ASTM D4812
23°C ⁹	49	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.10	J	ASTM D3763
--	1.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	153	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	101	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	153	°C	ISO 75-2/Af
1.8 MPa, Annealed, 3.20 mm	103	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 30°C	1.1E-4	cm/cm/°C	
Transverse : -30 to 30°C	1.1E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	177 to 188	°C	
Middle Temperature	193 to 204	°C	
Front Temperature	210 to 221	°C	
Processing (Melt) Temp	199 to 216	°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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		

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