

LNP™ THERMOCOMP™ 2Z004 compound

Ethylene Tetrafluoroethylene Copolymer

SABIC Innovative Plastics

Message:

LNP THERMOCOMP 2Z004 is a compound based on ETFE resin containing 20% Milled Glass.

Also known as: LNP* THERMOCOMP* Compound FP-EF-1004 M

Product reorder name: 2Z004

General Information			
Filler / Reinforcement	Milled Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.84	g/cm ³	
--	1.83	g/cm ³	
Water Absorption (24 hr, 50% RH)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1710	MPa	ASTM D638
--	1520	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	29.0	MPa	ASTM D638
Yield	27.0	MPa	ISO 527-2/5
Break ³	21.0	MPa	ASTM D638
Break	22.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	23	%	ASTM D638
Yield	22	%	ISO 527-2/5
Break ⁵	53	%	ASTM D638
Break	78	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	1280	MPa	ASTM D790
-- ⁷	1220	MPa	ISO 178
Flexural Stress	24.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	620	J/m	ASTM D256
23°C ⁸	38	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1300	J/m	ASTM D4812
23°C ⁹	120	kJ/m ²	ISO 180/1U

Instrumented Dart Impact (23°C, Total Energy)	26.5	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	88.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	89.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	52.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	50.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.0E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.7E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	120 to 150	°C	
Drying Time	4.0	hr	
Rear Temperature	280 to 300	°C	
Middle Temperature	300 to 325	°C	
Front Temperature	325 to 340	°C	
Processing (Melt) Temp	315	°C	
Mold Temperature	90.0 to 120	°C	
Back Pressure	0.170 to 0.340	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		
11.	80*10*4 mm		

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