

LNP™ THERMOCOMP™ YF004 compound

Thermoplastic Polyester Elastomer

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* YF004 is a compound based on Polyester Elastomer resin containing Glass Fiber.

Also known as: LNP* Thermocomp* Compound YF-1004

Product Reorder name: YF004

General Information			
Filler / Reinforcement	Glass Fiber		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.71	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.71	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2640	MPa	ASTM D638
--	2170	MPa	ISO 527-2/1
Tensile Strength			
Break ²	47.8	MPa	ASTM D638
Break	48.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	12	%	ASTM D638
Break	13	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	1930	MPa	ASTM D790
-- ⁵	312	MPa	ISO 178
Flexural Stress			
--	25.7	MPa	ISO 178
Break, 50.0 mm Span ⁶	55.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	400	J/m	ASTM D256
23°C ⁷	37	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Instrumented Dart Impact			

23°C, Total Energy	14.5	J	ASTM D3763
--	10.1	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	186	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁸	184	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	151	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	129	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.2E-4	cm/cm/°C	
Transverse : -30 to 30°C	3.2E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	182 to 193	°C	
Middle Temperature	204 to 216	°C	
Front Temperature	227 to 238	°C	
Processing (Melt) Temp	216 to 238	°C	
Mold Temperature	26.7 to 54.4	°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.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4 mm		
9.	80*10*4 mm		

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