

LNP™ THERMOCOMP™ EF004 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP EF004 is a compound based on Polyetherimide resin containing 20% Glass Fiber.

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

Product reorder name: EF004

General Information			
UL YellowCard	E121562-101357467		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption (24 hr, 50% RH)	0.19	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7180	MPa	ASTM D638
--	6800	MPa	ISO 527-2/1
Tensile Strength			
Break	151	MPa	ASTM D638
Break	155	MPa	ISO 527-2
Tensile Elongation			
Break	3.4	%	ASTM D638
Break	2.9 to 4.0	%	ISO 527-2
Flexural Modulus			
--	7580	MPa	ASTM D790
--	6800	MPa	ISO 178
Flexural Strength			
--	241	MPa	ASTM D790
--	226	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.52		
vs. Itself - Static	0.48		
Wear Factor - Washer	140	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	75	J/m	ASTM D256

23°C ²	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	690	J/m	ASTM D4812
23°C ³	48	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	207	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	205	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : -40 to 40°C	2.5E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.0E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	354 to 366	°C	
Front Temperature	366 to 377	°C	
Processing (Melt) Temp	360 to 366	°C	
Mold Temperature	121 to 149	°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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