

LNP™ THERMOCOMP™ EF006 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* EF006 is a compound based on Polyetherimide resin containing 30% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound EF-1006

Product reorder name: EF006

General Information			
UL YellowCard	E121562-101357467		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.53	g/cm ³	ASTM D792
--	1.52	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.49	%	ISO 294-4
Flow : 24 hr	0.23	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.15	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.21	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11400	MPa	ASTM D638
--	10400	MPa	ISO 527-2/1
Tensile Strength			
Break	189	MPa	ASTM D638
Break	177	MPa	ISO 527-2
Tensile Elongation			
Break	2.4	%	ASTM D638
Break	2.2	%	ISO 527-2
Flexural Modulus			
--	11400	MPa	ASTM D790
--	11500	MPa	ISO 178
Flexural Strength			
--	271	MPa	ASTM D790
--	263	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.55		
vs. Itself - Static	0.50		
Wear Factor - Washer	130	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C ²	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	760	J/m	ASTM D4812
23°C ³	49	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	12.4	J	ASTM D3763
--	2.64	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	204	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	206	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.1E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	4.2E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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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