

LNP™ THERMOCOMP™ JF006 compound

Polyethersulfone

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP JF006 is a compound based on Polyethersulfone resin containing 30% Glass Fiber.

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

Product reorder name: JF006

General Information			
UL YellowCard	E121562-101282575		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.30	%	ASTM D955
Transverse flow: 24 hours	0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.48	%	ISO 294-4
Flow direction: 24 hours	0.27	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.34	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.46	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10800	MPa	ASTM D638
--	9450	MPa	ISO 527-2/1
Tensile Strength			
Fracture	143	MPa	ASTM D638
Fracture	136	MPa	ISO 527-2
Tensile Elongation			
Fracture	2.2	%	ASTM D638
Fracture	2.1	%	ISO 527-2
Flexural Modulus			
--	9720	MPa	ASTM D790
--	10000	MPa	ISO 178
Flexural Strength			
--	210	MPa	ASTM D790
--	208	MPa	ISO 178
Coefficient of Friction			
With self-dynamics	0.52		ASTM D3702 Modified
With Self-Static	0.57		ASTM D3702 Modified

Wear Factor - Washer	170	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	96	J/m	ASTM D256
23°C ²	9.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	610	J/m	ASTM D4812
23°C ³	40	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.7	J	ASTM D3763
--	4.16	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	210	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	210	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	3.6E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	3.7E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	343 - 354	°C	
Middle Temperature	360 - 371	°C	
Front Temperature	371 - 382	°C	
Processing (Melt) Temp	354 - 371	°C	
Mold Temperature	138 - 149	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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