

LNP™ THERMOCOMP™ JF006LZZ compound

Polyethersulfone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* JF006LZZ is a compound based on Polyethersulfone resin containing 30% Glass Fiber. Added features of this material include: Extrusion Grade, Low Extractable.

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

Product reorder name: JF006LZZ

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Low Extractables		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.61	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.69	%	ISO 294-4
Flow : 24 hr	0.25	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.36	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9790	MPa	ASTM D638
--	10200	MPa	ISO 527-2/1
Tensile Strength			
Break	113	MPa	ASTM D638
Break	99.0	MPa	ISO 527-2
Tensile Elongation			
Break	1.8	%	ASTM D638
Break	1.4	%	ISO 527-2
Flexural Modulus	9240	MPa	ASTM D790, ISO 178
Flexural Strength			
--	178	MPa	ASTM D790
--	222	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ²	6.8	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812
23°C ³	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	12.8	J	ASTM D3763
--	2.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	218	°C	
1.8 MPa, Unannealed, 3.20 mm	212	°C	
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.6E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	360 to 371	°C	
Front Temperature	371 to 382	°C	
Processing (Melt) Temp	354 to 371	°C	
Mold Temperature	138 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		

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