

LNP™ COLORCOMP™ J1000 compound

Polyethersulfone

SABIC Innovative Plastics Europe

Message:

LNP COLORCOMP J1000 is a compound based on Polyethersulfone resin.

General Information			
UL YellowCard	E45329-101282591		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.0	%	Internal Method
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	91.0	MPa	
Break	67.0	MPa	
Tensile Strain (Yield)	6.8	%	ISO 527-2/50
Flexural Modulus ¹	2600	MPa	ISO 178
Flexural Stress	128	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	216	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	201	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	5.9E-5	cm/cm/°C	
Transverse : 23 to 60°C	5.9E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (0.500 mm)	V-0		UL 94
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.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4	
4.	80*10*4 mm	

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