

LNP™ COLORCOMP™ JX91550 compound

Polyethersulfone

SABIC Innovative Plastics

Message:

LNP COLORCOMP* JX91550 is an unfilled Polyethersulfone.
Also known as: LNP* COLORCOMP* Compound PDX-J-91550
Product reorder name: JX91550

General Information			
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.60 to 0.80	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.77	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2940	MPa	ASTM D638
--	2830	MPa	ISO 527-2/1
Tensile Strength			
Yield	77.4	MPa	ASTM D638
Yield	78.0	MPa	ISO 527-2
Break	58.4	MPa	ASTM D638
Break	53.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.6	%	ASTM D638
Yield	6.2	%	ISO 527-2
Break	14	%	ASTM D638
Break	23	%	ISO 527-2
Flexural Modulus			
--	2900	MPa	ASTM D790
--	2930	MPa	ISO 178
Flexural Strength			
--	123	MPa	ASTM D790
--	118	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	4.3	kJ/m ²	ISO 180/1A

Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	19.2	J	ASTM D3763
--	32.4	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	177	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ³	188	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	5.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	5.1E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	5.2E-5	cm/cm/°C	ISO 11359-2
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 mm		

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