

LNP™ COLORCOMP™ D1000P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP COLORCOMP D1000P is a compound based on Polycarbonate resin containing Unfilled Custom Color. Added features of this material include: Exceptional Processing.

Also known as: LNP* COLORCOMP* Compound D-1000 EP RD1-934 TP

Product reorder name: D1000P

General Information			
Features	Workability, good		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.20	g/cm ³	ASTM D792
--	1.19	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.60 - 0.80	%	ASTM D955
Transverse flow: 24 hours	0.70 - 0.90	%	ASTM D955
Vertical flow direction: 24 hours	0.75	%	ISO 294-4
Flow direction: 24 hours	0.65	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2070	MPa	ASTM D638
--	2210	MPa	ISO 527-2/1
Tensile Strength			
Yield	62.1	MPa	ASTM D638
Yield	64.0	MPa	ISO 527-2
Fracture	56.5	MPa	ASTM D638
Fracture	59.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.3	%	ASTM D638
Yield	5.6	%	ISO 527-2
Fracture	79	%	ASTM D638
Fracture	87	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	2300	MPa	ISO 178
Flexural Stress	81.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	540	J/m	ASTM D256
23°C ²	13	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	124	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ³	124	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 - 304	°C	
Middle Temperature	304 - 316	°C	
Front Temperature	310 - 321	°C	
Processing (Melt) Temp	299 - 316	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4 mm		

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Recommended distributors for this material

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