

SABIC Innovative Plastics LNP COLORCOMP D1000 PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* COLORCOMP* D1000 is a compound based on Polycarbonate resin containing Unfilled Custom Color

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-D1000-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Water Absorption	0.18 %	0.18 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	61.0 MPa	8850 psi	50 mm/min; ISO 527
Tensile Strength, Yield	67.0 MPa	9720 psi	50 mm/min; ISO 527
Elongation at Break	6.8 %	6.8 %	50 mm/min; ISO 527
	7.1 %	7.1 %	
Tensile Modulus	2.45 GPa	355 ksi	1 mm/min; ISO 527
Flexural Yield Strength	91.0 MPa	13200 psi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	120 kJ/m ²	57.1 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 μm/m-°C	37.8 μin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	75.0 μm/m-°C	41.7 μin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Deflection Temperature at 1.8 MPa Thermal Properties (104 psi)	120 °C Metric	248 °F English	Flatw 80*10*4 sp=64mm; ISO 75/Af Comments
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