

SABIC Innovative Plastics LNP COLORCOMP D1000P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* COLORCOMP* D1000P is an unfilled Polycarbonate. Added feature of this grade is: Exceptional Processing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-D1000P-PC.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0075 cm/cm	0.0075 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	ASTM D638
	59.0 MPa	8560 psi	ISO 527
Tensile Strength, Yield	62.0 MPa	8990 psi	ASTM D638
	64.0 MPa	9280 psi	ISO 527
Elongation at Break	78.7 %	78.7 %	ASTM D638
	87 %	87 %	ISO 527
Elongation at Yield	5.3 %	5.3 %	ASTM D638
	5.6 %	5.6 %	ISO 527
Tensile Modulus	2.06 GPa	299 ksi	50 mm/min; ASTM D638
	2.21 GPa	321 ksi	1 mm/min; ISO 527
Flexural Strength	81.0 MPa	11700 psi	ISO 178

Mechanical Properties	Metric	English	Comments
	2.75 GPa	399 ksi	ASTM D790
Izod Impact, Notched	5.44 J/cm	10.2 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	124 °C	255 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	123 °C @Thickness 3.20 mm	253 °F @Thickness 0.126 in	unannealed; ASTM D648

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