

SABIC Innovative Plastics LNP COLORCOMP DX04401H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* COLORCOMP* DX04401H is an unfilled Polycarbonate. Added feature of this grade is: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-DX04401H-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
	0.320 %	0.320 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Index of Compound	12 g/10 min	12 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	68.0 MPa	9860 psi	50 mm/min; ASTM D638
	68.0 MPa	9860 psi	ISO 527
Tensile Strength, Yield	62.0 MPa	8990 psi	50 mm/min; ASTM D638
	62.0 MPa	8990 psi	ISO 527
Elongation at Break	150 %	150 %	ISO 527
Elongation at Yield	6.0 %	6.0 %	50 mm/min; ASTM D638
	6.0 %	6.0 %	ISO 527
Tensile Modulus	2.21 GPa	321 ksi	50 mm/min; ASTM D638
Flexural Strength	98.0 MPa	14200 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched	7.50 J/cm	14.1 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812

Impact Notched (ISO) Mechanical Properties	75.0 kJ/m ² Metric	35.7 ft-lb/in ² English	80*10*4- ISO 180/1A Comments
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/2C
	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	ISO 179/2C

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	122 °C @Thickness 3.20 mm	252 °F @Thickness 0.126 in	unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Refractive Index	1.586	1.586	ASTM D542
	1.586	1.586	ISO 489

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+17 ohm-cm	2.00e+17 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	ASTM D150
Dissipation Factor	0.0010 @Frequency 100 Hz	0.0010 @Frequency 100 Hz	ASTM D150
	0.0020 @Frequency 1.00e+6 Hz	0.0020 @Frequency 1.00e+6 Hz	ASTM D150

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