

SABIC Innovative Plastics LNP COLORCOMP DX06407H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* COLORCOMP* DX06407H is an unfilled Polycarbonate. Added features of this material include: Easy Molding, Mold Release, Healthcare

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-DX06407H-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	5 mm/min; ISO 527
	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	63.0 MPa	9140 psi	Type I, 5 mm/min; ASTM D638
	65.0 MPa	9430 psi	5 mm/min; ISO 527
Elongation at Break	94 %	94 %	Type I, 5 mm/min; ASTM D638
	104 %	104 %	5 mm/min; ISO 527
Elongation at Yield	6.2 %	6.2 %	Type I, 5 mm/min; ASTM D638
	6.3 %	6.3 %	5 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
	2.34 GPa	339 ksi	5 mm/min; ASTM D638
Flexural Strength	91.0 MPa	13200 psi	ISO 178
Flexural Modulus	2.29 GPa	332 ksi	2 mm/min; ISO 178
	2.40 GPa	348 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.81 J/cm	14.6 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	13.1 J/cm	24.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	224 kJ/m ²	107 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	63.0 J @Temperature 23.0 °C	46.5 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	69.0 J	50.9 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	94.0 °C @Thickness 3.20 mm	201 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	104 °C	219 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	103 °C @Thickness 3.20 mm	217 °F @Thickness 0.126 in	unannealed; ASTM D648

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