

SABIC Innovative Plastics LNP COLORCOMP DX98735H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* COLORCOMP* DX98735H is an unfilled Polycarbonate resin. Added feature of this grade is: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-DX98735H-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm @Time 86400 sec	0.0080 - 0.010 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
	58.0 MPa	8410 psi	5 mm/min; ISO 527
Tensile Strength, Yield	62.0 MPa	8990 psi	5 mm/min; ISO 527
	63.0 MPa	9140 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	66 %	66 %	Type I, 5 mm/min; ASTM D638
	167 %	167 %	5 mm/min; ISO 527
Elongation at Yield	6.2 %	6.2 %	5 mm/min; ISO 527
	6.3 %	6.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.24 GPa	325 ksi	1 mm/min; ISO 527
	2.33 GPa	338 ksi	50 mm/min; ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	2.28 GPa	331 ksi	2 mm/min; ISO 178
	2.46 GPa	357 ksi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	0790 Comments
Izod Impact, Notched	1.01 J/cm	1.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	25.2 J/cm	47.2 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)	212 kJ/m ²	101 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	61.0 J	45.0 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	77.0 J	56.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 µm/m-°C	37.8 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	69.0 µm/m-°C	38.3 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	139 °C	282 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	126 °C	259 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	132 °C	270 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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