

SABIC Innovative Plastics LNP COLORCOMP D1006U PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* COLORCOMP* D1006U is an unfilled Polycarbonate. Added features include: Lasermarking Capability, UL Listed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-D1006U-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.240 %	0.240 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	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	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
	55.0 MPa	7980 psi	5 mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	5 mm/min; ISO 527
	61.0 MPa	8850 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	79 %	79 %	Type I, 5 mm/min; ASTM D638
	151 %	151 %	5 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	Type I, 5 mm/min; ASTM D638
	6.0 %	6.0 %	5 mm/min; ISO 527
Tensile Modulus	2.46 GPa	357 ksi	1 mm/min; ISO 527
	2.47 GPa	358 ksi	5 mm/min; ASTM D638
Flexural Strength	89.0 MPa	12900 psi	ISO 178
Flexural Modulus	2.32 GPa	336 ksi	2 mm/min; ISO 178
	2.44 GPa	354 ksi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	^{D790} Comments
Izod Impact, Notched	7.41 J/cm	13.9 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	58.0 kJ/m ²	27.6 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	63.0 J @Temperature 23.0 °C	46.5 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	76.0 J	56.1 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.0 µm/m-°C @Temperature -30.0 - 30.0 °C	39.4 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	69.3 µm/m-°C @Temperature -30.0 - 30.0 °C	38.5 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	136 °C	277 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	138 °C @Thickness 3.20 mm	280 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	124 °C	255 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	125 °C @Thickness 3.20 mm	257 °F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94

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