

SABIC Innovative Plastics LNP Colorcomp D10009 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Colorcomp* D10009 is a compound based on Polycarbonate resin containing Flame Retardant, Unfilled Custom Color. Added features of this material include: Flame Retardant. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Colorcomp-D10009-PC.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D 792
	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0078 cm/cm	0.0078 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0083 cm/cm	0.0083 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D 638
	51.0 MPa	7400 psi	ISO 527
Tensile Strength, Yield	58.0 MPa	8410 psi	ASTM D 638
	58.0 MPa	8410 psi	ISO 527
Elongation at Break	48.5 %	48.5 %	ASTM D 638
	90.6 %	90.6 %	ISO 527
Elongation at Yield	5.7 %	5.7 %	ISO 527
	5.8 %	5.8 %	ASTM D 638
Tensile Modulus	2.06 GPa	299 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric 2.10 GPa	English 312 ksi	Comments 1 mm/min; ISO 527
Flexural Strength	73.0 MPa	10600 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D 790
	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched	1.54 J/cm @Temperature 23.0 °C	2.89 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	21.14 J/cm @Temperature 23.0 °C	39.60 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	15.0 kJ/m² @Temperature 23.0 °C	7.14 ft-lb/in² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	191 kJ/m² @Temperature 23.0 °C	90.9 ft-lb/in² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	37.0 J	27.3 ft-lb	Multiaxial Impact; ISO 6603
	54.0 J @Temperature 23.0 °C	39.8 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	70.2 µm/m-°C @Temperature -40.0 - 40.0 °C	39.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	72.0 µm/m-°C @Temperature -40.0 - 40.0 °C	40.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	72.0 µm/m-°C @Temperature -40.0 - 40.0 °C	40.0 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	136 °C	277 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	137 °C @Thickness 3.20 mm	279 °F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties Deflection Temperature at 1.8 MPa (150 psi)	Metric 120 °C	English 248 °F	Comments 9+4 sp=64mm; ISO 75/Af
	126 °C @Thickness 3.20 mm	259 °F @Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94 by SABIC-IP

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