

SABIC Innovative Plastics LNP Lubricomp DCL329XZ PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DCL329XZ is a compound based on Polycarbonate resin containing Carbon Fiber, Flame Retardant, PTFE. Added features of this material include: Electrically Conductive. 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-Lubricomp-DCL329XZ-PC.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
	1.365 g/cc	0.04931 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.14 %	0.14 %	23°C / 50% RH; ISO 62
	0.090 % @Time 86400 sec	0.090 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0014 - 0.0019 cm/cm	0.0014 - 0.0019 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0050 cm/cm	0.0040 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0045 - 0.0052 cm/cm	0.0045 - 0.0052 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	91.0 MPa	13200 psi	ASTM D 638
	94.0 MPa	13600 psi	ISO 527
Elongation at Break	1.9 %	1.9 %	ISO 527
	2.0 %	2.0 %	ASTM D 638
Tensile Modulus	7.17 GPa	1040 ksi	50 mm/min; ASTM D 638
	7.30 GPa	1060 ksi	1 mm/min; ISO 527
Flexural Strength	138 MPa	20000 psi	ASTM D 790
	139 MPa	20200 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	0.48 GPa	698 ksi	ASTM D 790
	7.30 GPa	1060 ksi	ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	3.15 J/cm	5.90 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.1 µm/m-°C	13.4 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	24.1 µm/m-°C	13.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	41.9 µm/m-°C	23.3 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	41.9 µm/m-°C	23.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	141 °C	286 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	143 °C	289 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	139 °C	282 °F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D 648 Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D 257

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