

SABIC Innovative Plastics LNP STAT-KON DDF029 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DDF029 is a compound based on Polycarbonate resin containing Carbon, Glass Fiber. Added features of this material include: Electrically Conductive. Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DDF029-PC.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.200 %	0.200 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0044 cm/cm	0.0044 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0049 cm/cm	0.0049 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	81.0 MPa	11700 psi	ASTM D638
	81.0 MPa	11700 psi	ISO 527
Elongation at Break	2.8 %	2.8 %	ISO 527
	2.9 %	2.9 %	ASTM D638
Tensile Modulus	4.48 GPa	650 ksi	50 mm/min; ASTM D638
	4.60 GPa	667 ksi	1 mm/min; ISO 527
Flexural Strength	132 MPa	19100 psi	ASTM D790
	134 MPa	19400 psi	ISO 178
Flexural Modulus	4.41 GPa	640 ksi	ASTM D790

Mechanical Properties	4.80 GPa Metric	696 ksi English	ISO 178 Comments
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.43 J/cm	8.30 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ²	2.86 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	32.0 kJ/mÂ²	15.2 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.2 Âµm/m-Â°C	24.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	44.3 Âµm/m-Â°C	24.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	50.4 Âµm/m-Â°C	28.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	51.9 Âµm/m-Â°C	28.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	141 Â°C	286 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	135 Â°C	275 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	135 Â°C	275 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.80 mm	@Thickness 0.0709 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1e+05 - 1.00e+10 ohm	1e+05 - 1.00e+10 ohm	ASTM D257

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