

SABIC Innovative Plastics LNP STAT-KON DX05474 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DX05474 is a compound based on Polycarbonate resin containing 10% Carbon Fiber. Added features of this material include: Electrically Conductive, Easy Molding, Flame Retardant, Mold Release.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX05474-PC.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0036 cm/cm	0.0036 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0051 cm/cm	0.0051 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	ASTM D638
	107 MPa	15500 psi	ISO 527
Elongation at Break	5.9 %	5.9 %	ASTM D638
	6.4 %	6.4 %	ISO 527
Tensile Modulus	7.68 GPa	1110 ksi	1 mm/min; ISO 527
	13.78 GPa	1999 ksi	50 mm/min; ASTM D638
Flexural Strength	158 MPa	22900 psi	ASTM D790
	169 MPa	24500 psi	ISO 178
Flexural Modulus	7.30 GPa	1060 ksi	ISO 178
	7.58 GPa	1100 ksi	ASTM D790

Izod Impact, Notched Mechanical Properties	0.530 J/cm Metric	0.993 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	3.73 J/cm	6.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/mÂ²	13.3 ft-lb/inÂ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	103 Âµm/m-Â°C	57.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	103 Âµm/m-Â°C	57.2 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	41.0 Âµm/m-Â°C	22.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	41.4 Âµm/m-Â°C	23.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	150 Â°C	302 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	146 Â°C	295 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	146 Â°C	295 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	143 Â°C	290 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 - 1.00e+7 ohm	1000 - 1.00e+7 ohm	ASTM D257

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