

## SABIC Innovative Plastics LNP STAT-KON DX05499 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP STAT-KON\* DX05499 is a compound based on Polycarbonate resin containing Carbon Powder. 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-DX05499-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX05499-PC.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.190 %	0.190 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0064 cm/cm	0.0064 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0066 cm/cm	0.0066 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ISO 527
	60.0 MPa	8700 psi	ASTM D638
Tensile Strength, Yield	64.0 MPa	9280 psi	ISO 527
	67.0 MPa	9720 psi	ASTM D638
Elongation at Break	8.3 %	8.3 %	ASTM D638
	12.6 %	12.6 %	ISO 527
Elongation at Yield	4.3 %	4.3 %	ISO 527
	4.6 %	4.6 %	ASTM D638
Tensile Modulus	2.75 GPa	399 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.80 GPa Metric	406 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	101 MPa	14600 psi	ASTM D790
	108 MPa	15700 psi	ISO 178
Flexural Modulus	3.10 GPa	450 ksi	ISO 178
	3.23 GPa	468 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	23.54 J/cm	44.10 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	137 kJ/m <sup>2</sup>	65.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	25.0 J	18.4 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	34.0 J	25.1 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 Â°C @Thickness 3.20 mm	270 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	122 Â°C	252 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	120 Â°C @Thickness 3.20 mm	248 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.500 mm	V-0 @Thickness 0.0197 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Surface Resistance	1e+05 - 1.00e+9 ohm	1e+05 - 1.00e+9 ohm	ASTM D257

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