

SABIC Innovative Plastics LNP STAT-KON DE0049P PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Stat-kon* DE0049P is a compound based on Polycarbonate resin containing Flame Retardant, Carbon Fiber. Added features of this material include: Exceptional Processing, Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE0049P-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0014 cm/cm	0.0014 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0056 cm/cm	0.0056 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	132 MPa	19100 psi	ISO 527
	137 MPa	19900 psi	ASTM D638
Elongation at Break	0.90 %	0.90 %	ASTM D638
	1.3 %	1.3 %	ISO 527
Tensile Modulus	15.96 GPa	2315 ksi	1 mm/min; ISO 527
	16.54 GPa	2399 ksi	50 mm/min; ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
	219 MPa	31800 psi	ISO 178
Flexural Modulus	12.41 GPa	1800 ksi	ASTM D790
	13.2 GPa	1910 ksi	ISO 178

Izod Impact, Notched Mechanical Properties	0.580 J/cm Metric	1.09 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	4.32 J/cm	8.09 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 Åµm/m-Å°C	19.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	35.0 Åµm/m-Å°C	19.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	32.4 Åµm/m-Å°C	18.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	33.0 Åµm/m-Å°C	18.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	143 Å°C	289 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	139 Å°C	282 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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