

SABIC Innovative Plastics LNP STAT-KON DE002 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Stat-Kon* DE002 is a Polycarbonate containing Carbon Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE002-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
	0.0800 %	0.0800 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	97.0 MPa	14100 psi	Type I, 5 mm/min; ASTM D638
	97.0 MPa	14100 psi	5 mm/min; ISO 527
Elongation at Break	7.2 %	7.2 %	5 mm/min; ISO 527
	7.5 %	7.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	10.34 GPa	1500 ksi	1 mm/min; ISO 527
	11.14 GPa	1616 ksi	50 mm/min; ASTM D638
Flexural Strength	149 MPa	21600 psi	ISO 178
	159 MPa	23100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.44 GPa	1080 ksi	2 mm/min; ISO 178
	7.46 GPa	1080 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Unnotched	0.0900 J/cm	0.169 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

Mechanical Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	14.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
CTE, linear, Transverse to Flow	58.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	32.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	145 $\text{Å}^\circ\text{C}$	293 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	146 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	295 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	142 $\text{Å}^\circ\text{C}$	288 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	286 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.0 - 6.0 ohm-cm	4.0 - 6.0 ohm-cm	ASTM D257
Surface Resistance	3.0 - 5.0 ohm	3.0 - 5.0 ohm	ASTM D257

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