

SABIC Innovative Plastics LNP STAT-KON Valox_VCF2020 PET

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

LNP* Stat-kon* Valox_VCF2020 compound is a 20% carbon fiber reinforced PET. Conductive applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-ValoxVCF2020-PET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0090 cm/cm @Thickness 3.20 mm	0.0050 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0070 - 0.011 cm/cm @Thickness 3.20 mm	0.0070 - 0.011 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	47 g/10 min @Load 5.00 kg, Temperature 266 Â°C	47 g/10 min @Load 11.0 lb, Temperature 511 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	152 MPa	22000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	152 MPa	22000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	16.75 GPa	2429 ksi	5 mm/min; ASTM D638
Flexural Strength	219 MPa	31800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.9 GPa	1870 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.84 J/cm	7.19 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	11.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	140 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	77.8 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	208 $\text{Å}^\circ\text{C}$	406 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	245 $\text{Å}^\circ\text{C}$	473 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	247 $\text{Å}^\circ\text{C}$	477 $\text{Å}^\circ\text{F}$	Rate B/50; ASTM D1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 ohm-cm	1.0 ohm-cm	IEC 60093

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China