

SABIC Innovative Plastics LNP STAT-KON Ultem_UC1200 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Stat-kon* Ultem_UC1200 is a 12% carbon fiber reinforced PEI. High modulus with ESD characteristics for high-heat applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-UltemUC1200-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0012 - 0.0022 cm/cm @Thickness 3.20 mm	0.0012 - 0.0022 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	7.5 g/10 min @Load 6.60 kg, Temperature 337 Â°C	7.5 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.1 %	5.1 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.1 %	5.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.13 GPa	1180 ksi	5 mm/min; ASTM D638
Flexural Strength	193 MPa	28000 psi	2.6 mm/min, 100 mm span; ASTM D790
	221 MPa	32100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.83 GPa	1140 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.27 GPa	1200 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.16 J/cm	7.79 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	ASTM D3763

Mechanical Properties	@Temperature 23.0 Metric	@Temperature 73.4 Å°F English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.4 Åµm/m-Å°C	8.00 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	14.4 Åµm/m-Å°C	8.00 Åµin/in-Å°F	ASTM E 831
	@Temperature -20.0 - 150 Å°C	@Temperature -4.00 - 302 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	
	39.6 Åµm/m-Å°C	22.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -20.0 - 150 Å°C	@Temperature -4.00 - 302 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	213 Å°C	415 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	208 Å°C	406 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	210 Å°C	410 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	214 Å°C	417 Å°F	Rate B/50; ASTM D1525
UL RTI, Electrical	105 Å°C	221 Å°F	UL 746B
UL RTI, Mechanical with Impact	105 Å°C	221 Å°F	UL 746B
UL RTI, Mechanical without Impact	105 Å°C	221 Å°F	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.57 mm	@Thickness 0.0618 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	400 ohm-cm	400 ohm-cm	ASTM D257
Surface Resistance	200000 ohm	200000 ohm	ASTM D257
Static Decay	0.010 sec	0.010 sec	5000V to <50V; FTMS101B
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A

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