

SABIC Innovative Plastics LNP STAT-LOY 63000CTC PC+POLYESTER (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

A permanent antistatic PC-Alloy compound that features transparency and superior cleanliness for advanced semiconductor packaging applications

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http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-63000CTC-PCPOLYESTER-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792
Moisture Absorption	0.700 %	0.700 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.0 MPa	4930 psi	5 mm/min; ISO 527
	35.0 MPa	5080 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	140 %	140 %	5 mm/min; ISO 527
	200 %	200 %	Type I, 10 mm/min; SABIC - Japan Method
Tensile Modulus	1.17 GPa	170 ksi	50 mm/min; ASTM D638
	1.19 GPa	173 ksi	1 mm/min; ISO 527
Flexural Strength	52.0 MPa	7540 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.15 GPa	167 ksi	2 mm/min; ISO 178
	1.17 GPa	170 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	5.80 J/cm	10.9 ft-lb/in	ASTM D256
Charpy Impact, Notched	6.90 J/cm ²	32.8 ft-lb/in ²	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 μ m/m- $^{\circ}$ C	66.7 μ in/in- $^{\circ}$ F	ISO 11359-2
	@Temperature 23.0 -	@Temperature 73.4 -	

Thermal Properties	60.0 Å°C Metric	140 Å°F English	Comments
CTE, linear, Transverse to Flow	140 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	77.8 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	84.0 Å°C @Thickness 6.40 mm	183 Å°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Å°C @Thickness 6.40 mm	167 Å°F @Thickness 0.252 in	unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Haze	25 % @Thickness 2.54 mm	25 % @Thickness 0.100 in	ASTM D1003
Transmission, Visible	77 %	77 %	2.54 mm; ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+9 - 3.00e+11 ohm-cm	8.00e+9 - 3.00e+11 ohm-cm	ASTM D257
Surface Resistance	9.00e+9 - 4.00e+11 ohm	9.00e+9 - 4.00e+11 ohm	ASTM D257
Static Decay	2.0 sec	2.0 sec	5000V to <50V; FTMS101B

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