

SABIC Innovative Plastics LNP STAT-LOY 63000CTU 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, UV cut, and superior cleanliness for advanced semiconductor packaging applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-63000CTU-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
Melt Flow	19 g/10 min @Load 2.16 kg, Temperature 260 ^o C	19 g/10 min @Load 4.76 lb, Temperature 500 ^o F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.0 MPa	5220 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Tensile Modulus	1.16 GPa	168 ksi	50 mm/min; ASTM D638
Flexural Strength	53.0 MPa	7690 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.21 GPa	175 ksi	ASTM D790
Izod Impact, Notched	5.00 J/cm	9.37 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
Deflection Temperature at 0.46 MPa (66 psi)	83.0 ^o C @Thickness 6.40 mm	181 ^o F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	74.0 ^o C @Thickness 6.40 mm	165 ^o F @Thickness 0.252 in	unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Haze	10 % @Thickness 2.54 mm	10 % @Thickness 0.100 in	ASTM D1003
Transmission, Visible	35 %	35 %	3.0 mm; SABIC Method

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 - 5.00e+12 ohm-cm	1.00e+11 - 5.00e+12 ohm-cm	ASTM D257
Surface Resistance	1.00e+11 - 5.00e+12 ohm	1.00e+11 - 5.00e+12 ohm	ASTM D257
Static Decay	2.0 sec	2.0 sec	5000V to <50V; FTMS101B

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