

SABIC Innovative Plastics LNP STAT-LOY SLDM2005 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Antistatic Polycarbonate, Non Halogen FR V-2 grade, mineral 5% filled

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-SLDM2005-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Moisture Absorption	0.0300 %	0.0300 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.60 %	0.60 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	17 g/10 min	17 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 260 Â°C	@Load 4.76 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
	46.0 MPa	6670 psi	5 mm/min; ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	5 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	46 %	46 %	5 mm/min; ISO 527
	72 %	72 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	4.0 %	4.0 %	5 mm/min; ISO 527
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min; ISO 527
	2.83 GPa	410 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D790
	88.0 MPa	12800 psi	2 mm/min; ISO 178
Flexural Modulus	2.35 GPa	341 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 2.63 GPa	English 380 ksi	Comments 2 mm/min, ISO 178
Izod Impact, Notched	2.94 J/cm	5.51 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Â°C @Thickness 3.20 mm	210 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-2 @Thickness 2.00 mm	V-2 @Thickness 0.0787 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Surface Resistance	5.00e+12 ohm	5.00e+12 ohm	ASTM D257

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