

SABIC Innovative Plastics LNP STAT-LOY 9X03508 PPO+PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Polyphenylene Ether/PPO

Material Notes:

LNP* STAT-LOY* 9X03508 is a compound based on PPO+PA66 resin containing Proprietary Filler(s). Added features of this material include: Antistatic, Flame Retardant, High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-9X03508-PPOPA66.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Moisture Absorption	0.900 %	0.900 %	50% RH, 24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ASTM D638
	58.0 MPa	8410 psi	ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	ASTM D638
	59.0 MPa	8560 psi	ISO 527
Elongation at Break	2.2 %	2.2 %	ASTM D638
	2.8 %	2.8 %	ISO 527
Elongation at Yield	2.1 %	2.1 %	ASTM D638
	2.4 %	2.4 %	ISO 527
Tensile Modulus	4.47 GPa	648 ksi	1 mm/min; ISO 527
	4.82 GPa	699 ksi	50 mm/min; ASTM D638
Flexural Strength	82.0 MPa	11900 psi	ASTM D790
	96.0 MPa	13900 psi	ISO 178
Flexural Modulus	3.44 GPa	499 ksi	ASTM D790
	4.00 GPa	580 ksi	ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.27 J/cm	8.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)			80*10*4; ISO 180/1A

Mechanical Properties	4.00 kJ/mA ² Metric	1.90 ft-lb/inA ² English	Comments
Izod Impact, Unnotched (ISO)	26.0 kJ/mA ²	12.4 ft-lb/inA ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.8 Åµm/m-Å°C	36.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	65.0 Åµm/m-Å°C	36.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	43.0 Åµm/m-Å°C	23.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	43.2 Åµm/m-Å°C	24.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	218 Å°C	424 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	230 Å°C	446 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	179 Å°C	354 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	186 Å°C	367 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+10 - 1.00e+12 ohm	1.00e+10 - 1.00e+12 ohm	ASTM D257

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