

SABIC Innovative Plastics LNP STAT-LOY PF303 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* STAT-LOY* PF303 is a Nylon 6 base resin containing 15% Glass Fiber. Added features of this grade includes: Antistat.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-PF303-PA-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Moisture Absorption	6.60 %	6.60 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.0 MPa	9860 psi	5 mm/min; ISO 527
	74.0 MPa	10700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	72.0 MPa	10400 psi	5 mm/min; ISO 527
	82.0 MPa	11900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
	2.8 %	2.8 %	5 mm/min; ISO 527
Elongation at Yield	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	4.74 GPa	687 ksi	1 mm/min; ISO 527
	5.62 GPa	815 ksi	50 mm/min; ASTM D638
Flexural Strength	103 MPa	14900 psi	ISO 178
	120 MPa	17400 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Yield Strength Mechanical Properties	121 MPa Metric	17500 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	4.25 GPa	616 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.25 GPa	616 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.930 J/cm	1.74 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.49 J/cm	14.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	44.0 kJ/m ²	20.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	17.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	137 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	76.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	204 Â°C	399 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	207 Â°C @Thickness 3.20 mm	405 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	181 Â°C	358 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	188 Â°C @Thickness 3.20 mm	370 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	9.0 - 11 ohm	9.0 - 11 ohm	ASTM D257

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