

SABIC Innovative Plastics LNP Stat-kon RX89129 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Stat-Kon RX89129 is a compound based on Nylon 6,6. Fillers are proprietary. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-RX89129-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.94 %	0.94 %	23 ^o C / 50% RH; ISO 62
	0.62 %	0.62 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	67.0 MPa	9720 psi	5 mm/min; ISO 527
	69.0 MPa	10000 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	68.0 MPa	9860 psi	5 mm/min; ISO 527
	69.0 MPa	10000 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D 638
	4.1 %	4.1 %	5 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D 638
	4.0 %	4.0 %	5 mm/min; ISO 527
Tensile Modulus	3.31 GPa	480 ksi	1 mm/min; ISO 527
	3.45 GPa	500 ksi	50 mm/min; ASTM D 638
Flexural Strength	95.0 MPa	13800 psi	1.3 mm/min, 50 mm span; ASTM D 790
	2.59 GPa	376 ksi	1.3 mm/min, 50 mm span; ASTM D

Flexural Modulus Mechanical Properties	Metric	English	790 Comments
	3.10 GPa	450 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.420 J/cm @Temperature 23.0 Â°C	0.787 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	7.15 J/cm @Temperature 23.0 Â°C	13.4 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	44.0 kJ/mÂ² @Temperature 23.0 Â°C	20.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	81.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	45.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	87.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	213 Â°C	415 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	224 Â°C @Thickness 3.20 mm	435 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	91.0 Â°C	196 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	91.0 Â°C @Thickness 3.20 mm	196 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 3.0 ohm	1.0 - 3.0 ohm	ASTM D 257

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