

SABIC Innovative Plastics LNP Stat-kon REL36 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Carbon Fiber/PTFE Filled

Material Notes:

LNP* Stat-Kon* REL36 is a compound based on Nylon 6/6 containing carbon fiber and PTFE. Characteristics of this grade are Statically Conductive. 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-REL36-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
	1.394 g/cc	0.05036 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.75 %	0.75 %	23 ^o C / 50% RH; ISO 62
	0.52 % @Time 86400 sec	0.52 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0015 - 0.0017 cm/cm @Time 86400 sec	0.0015 - 0.0017 in/in @Time 24.0 hour	ASTM D 955
	0.0010 - 0.0080 cm/cm @Time 86400 sec	0.0010 - 0.0080 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	154 MPa	22300 psi	Type I, 5 mm/min; ASTM D 638
	175 MPa	25400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	154 MPa	22300 psi	Type I, 5 mm/min; ASTM D 638
	173 MPa	25100 psi	5 mm/min; ISO 527
Elongation at Break	1.1 %	1.1 %	Type I, 5 mm/min; ASTM D 638
	1.3 %	1.3 %	5 mm/min; ISO 527
	181.7 %	181.7 %	Flexural Strain, 2 mm/min; ISO 178
Elongation at Yield	1.1 %	1.1 %	Type I, 5 mm/min; ASTM D 638
	1.2 %	1.2 %	5 mm/min; ISO 527
Tensile Modulus	24.61 GPa	3569 ksi	1 mm/min; ISO 527
	32.44 GPa	4705 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
Flexural Modulus	16.18 GPa	2347 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	17.35 GPa	2516 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D 256
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Unnotched	5.69 J/cm	10.7 ft-lb/in	ASTM D 4812
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Notched (ISO)	5.00 kJ/mÅ²	2.38 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Unnotched (ISO)	41.0 kJ/mÅ²	19.5 ft-lb/inÅ²	80*10*4; ISO 180/1U
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Åµm/m-Å°C	44.4 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	78.7 Åµm/m-Å°C	43.7 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	261 Å°C	502 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	261 Å°C	502 Å°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	252 Å°C	486 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	253 Å°C	487 Å°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 5.0 ohm	2.0 - 5.0 ohm	ASTM D 257

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