

SABIC Innovative Plastics LNP STAT-KON PE002Z PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* STAT-KON* PE002Z is a compound based on Nylon 6 resin containing 10% Carbon Fiber. Added features of this grade include:

Extrusion Grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-PE002Z-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Moisture Absorption	0.930 %	0.930 %	23 ^o C / 50% RH; ISO 62
	0.930 %	0.930 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D638
	59.0 MPa	8560 psi	5 mm/min; ISO 527
Elongation at Break	10.8 %	10.8 %	5 mm/min; ISO 527
	32 %	32 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	0.210 GPa	30.5 ksi	50 mm/min; ASTM D638
	0.870 GPa	126 ksi	1 mm/min; ISO 527
Flexural Strength	82.0 MPa	11900 psi	ISO 178
	121 MPa	17500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.13 GPa	309 ksi	2 mm/min; ISO 178
	4.07 GPa	590 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	13.05 J/cm Metric	24.45 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	65.0 kJ/m ²	30.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	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	53.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	94.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	52.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	195 Â°C	383 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	194 Â°C @Thickness 3.20 mm	381 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	134 Â°C	273 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	131 Â°C @Thickness 3.20 mm	268 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	7.0 - 9.0 ohm	7.0 - 9.0 ohm	ASTM D257

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