

SABIC Innovative Plastics LNP Stat-kon TD000

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Carbon Fiber Reinforced

Material Notes:

LNP* Stat-kon* TD000 is a compound based on Polyurethane resin. Added features of this material include: Electrically 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-TD000.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D 792
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.79 %	0.79 %	23°C / 50% RH; ISO 62
	0.50 %	0.50 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.0 MPa	3480 psi	5 mm/min; ISO 527
	25.0 MPa	3630 psi	ASTM D 638
Tensile Strength, Yield	24.0 MPa	3480 psi	5 mm/min; ISO 527
	26.0 MPa	3770 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	140 %	140 %	5 mm/min; ISO 527
	160 %	160 %	ASTM D 638
Elongation at Yield	140 %	140 %	5 mm/min; ISO 527
	160 %	160 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	0.180 GPa	26.1 ksi	50 mm/min; ASTM D 638
	0.300 GPa	43.5 ksi	1 mm/min; ISO 527
Flexural Strength	6.00 MPa	870 psi	ASTM D 790

Mechanical Properties	16.0 MPa Metric	2320 psi English	ISO 178 Comments
Flexural Modulus	0.350 GPa	50.8 ksi	2 mm/min; ISO 178
	0.360 GPa	52.2 ksi	ASTM D 790
Izod Impact, Notched	7.94 J/cm @Temperature 23.0 Â°C	14.9 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	10.03 J/cm @Temperature 23.0 Â°C	18.79 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	78.0 kJ/mÂ² @Temperature 23.0 Â°C	37.1 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	87.0 kJ/mÂ² @Temperature 23.0 Â°C	41.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	55.0 J	40.6 ft-lb	Multiaxial Impact; ISO 6603
	50.0 J @Temperature 23.0 Â°C	36.9 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	6.67 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	14.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	7.78 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	69.0 Â°C	156 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	70.0 Â°C @Thickness 3.20 mm	158 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	48.0 Â°C	118 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	47.0 Â°C @Thickness 3.20 mm	117 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	3.0 - 5.0 ohm	3.0 - 5.0 ohm	ASTM D 257

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