

SABIC Innovative Plastics LNP Stat-kon MD000IU PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Stat-kon* MD000IU is a compound based on Polypropylene resin containing Carbon Powder. Added features of this material include: Electrically Conductive, High Impact, UV Stabilized. 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-MD000IU-PP.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	ISO 1183
	0.980 g/cc	0.0354 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.030 %	0.030 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	16.0 MPa	2320 psi	ASTM D 638
	17.0 MPa	2470 psi	ISO 527
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527
	21.0 MPa	3050 psi	ASTM D 638
Elongation at Break	133.8 %	133.8 %	ASTM D 638
Elongation at Yield	9.0 %	9.0 %	ASTM D 638
Tensile Modulus	0.480 GPa	69.6 ksi	50 mm/min; ASTM D 638
	1.10 GPa	160 ksi	1 mm/min; ISO 527
Flexural Strength	20.0 MPa	2900 psi	ASTM D 790

Mechanical Properties	Metric 27.0 MPa	English 3900 psi	Comments ISO 178
Flexural Modulus	1.13 GPa	164 ksi	ASTM D 790
	1.20 GPa	174 ksi	ISO 178
Izod Impact, Notched	8.33 J/cm	15.6 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	15.48 J/cm	29.00 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	65.0 kJ/m ²	30.9 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	112 kJ/m ²	53.3 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	31.0 J	22.9 ft-lb	Multiaxial Impact; ISO 6603
	24.0 J	17.7 ft-lb	
	@Temperature 23.0 °C	@Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	101 µm/m-°C	56.1 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	101 µm/m-°C	56.1 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	119 µm/m-°C	66.1 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	119 µm/m-°C	66.1 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	81.0 °C	178 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	52.0 °C	126 °F	
			unannealed; ASTM D 648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1.00e+6 ohm	10 - 1.00e+6 ohm	ASTM D 257

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