

LNP™ STAT-KON™ Compound MD000

Polypropylene
SABIC

PROSPECTOR®

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Technical Data

Product Description

LNP STAT-KON™ MD000 is a compound based on Polypropylene resin containing Carbon Powder. Added feature of this material is: Electrically Conductive.

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E121562-101381589
Search for UL Yellow Card	• SABIC • LNP™ STAT-KON™ Compound
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Uses	• Construction Applications

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	0.950 g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage		
Flow : 24 hr	1.3 to 1.6 %	ASTM D955
Across Flow : 24 hr	1.3 to 1.6 %	ASTM D955
Across Flow : 24 hr	1.3 %	ISO 294-4
Flow : 24 hr	1.5 %	ISO 294-4
Water Absorption		
24 hr, 23°C, 50% RH	0.030 %	ASTM D570
Equilibrium, 23°C, 50% RH	0.030 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	1250 MPa	ASTM D638
--	1220 MPa	ISO 527-2/1
Tensile Strength		
Yield	21.0 MPa	ASTM D638 ISO 527-2
Break	16.0 MPa	ASTM D638
Break	15.0 MPa	ISO 527-2
Tensile Elongation		
Yield	8.4 %	ASTM D638
Yield	6.2 %	ISO 527-2
Break	48 %	ASTM D638
Break	52 %	ISO 527-2
Flexural Modulus		
--	1170 MPa	ASTM D790
--	1160 MPa	ISO 178
Flexural Strength		
--	29.0 MPa	ASTM D790
--	24.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	820 J/m	ASTM D256
23°C ⁴	60 kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break	ASTM D4812 ISO 180/1U
Instrumented Dart Impact		
23°C, Energy at Peak	33.0 J	ASTM D3763
--	32.0 J	ISO 6603-2



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Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 3.20 mm	51.0 °C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm, 64.0 mm Span ⁴	53.0 °C	ISO 75-2/Af
CLTE		ASTM E831 ISO 11359-2
Flow : -40 to 40°C	1.0E-4 cm/cm/°C	
Transverse : -40 to 40°C	1.1E-4 cm/cm/°C	
RTI Elec ⁵	65.0 °C	UL 746
RTI Imp ⁵	65.0 °C	UL 746
RTI Str ⁵	65.0 °C	UL 746
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6 ohms	ASTM D257
Flammability	Nominal Value Unit	Test Method
Flame Rating ⁵ (1.5 mm)	HB	UL 94
Injection	Nominal Value Unit	
Drying Temperature	80 °C	
Drying Time	4.0 hr	
Rear Temperature	195 to 205 °C	
Middle Temperature	215 to 225 °C	
Front Temperature	240 to 250 °C	
Processing (Melt) Temp	225 to 250 °C	
Mold Temperature	30 to 50 °C	
Back Pressure	0.200 to 0.300 MPa	
Screw Speed	30 to 60 rpm	

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ 50 mm/min

⁴ 80*10*4 mm

⁵ UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.



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Where to Buy

Supplier

SABIC

Web: <http://www.sabic.com/>



Distributor**3Polymer (Guangzhou) Chemical Technology Co., Ltd.**

Telephone: +86-20-3466-7988

Web: <http://3polymer.com>

Availability: China

AECTRA

Telephone: +33-4-72-54-36-42

Web: <https://www.aectra.fr/>

Availability: Bulgaria, Romania

AGI-Augusto Guimarães & Irmão

Telephone: +351-22753-7400

Web: <https://www.agi.pt/en/>

Availability: Portugal

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

Chase Plastic Services, Inc.

Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>

Telephone: 800-232-4273

Web: <http://www.chaseplastics.com/>

Availability: North America

GRÄSSLIN

Telephone: +49-7721-4040-261

Web: <https://www.graesslin-kunststoffe.de>

Availability: Germany

Guzmán Polymers

Telephone: +34-963-992-400

Web: <https://www.guzmanglobal.com/en/productos/plastics/>

Availability: Italy, Spain, Turkey

Lenorplastics

Telephone: +41-61-706-11-11

Web: <https://www.lenorplastics.ch>

Availability: Switzerland

Nexeo Plastics

Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at www.nexeoplastics.com.

Telephone: 833-446-3936

Web: <https://www.nexeoplastics.com/>

Availability: North America

Plastoplan

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Austria, Czech Republic, Hungary, Slovakia

POLYMIX

POLYMIX is a Pan European distribution company. Contact POLYMIX for availability of individual products by country.

Telephone: +33-3-8920-1380

Web: <http://www.polymix.eu/>

Availability: France

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe



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Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Belgium, Netherlands, South Africa

