

LNPT[™] STAT-KON[™] COMPOUND PX08019

DESCRIPTION

LNP STAT-KON PX08019 compound is based on Nylon 6 resin containing carbon fiber and glass fiber. Added features of this grade include: Electrically Conductive, Non-Halogenated Flame Retardant.

GENERAL INFORMATION

Features	Flame Retardant, Electrically Conductive, Non halogenated flame retardant, Carbon fiber filled, High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber, Carbon Powder
Polymer Types	Polyamide 6 (Nylon 6)
Processing Techniques	Injection Molding

INDUSTRY

Electrical and Electronics
Industrial

SUB INDUSTRY

Electronic Components
Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield, 5 mm/min	160	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.3	%	ISO 527
Flexural Stress, yield, 2 mm/min	230	MPa	ISO 178
Flexural Modulus, 2 mm/min	11500	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched 80*10*4 +23°C	45	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
THERMAL ⁽¹⁾			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	207	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Density	1.33	g/cm ³	ISO 1183
Melt Volume Rate, MVR at 275°C/2.16 kg	10	cm ³ /10 min	ISO 1133
Mold Shrinkage, flow ⁽²⁾	0.2 – 0.4	%	SABIC method
ELECTRICAL ⁽¹⁾			
Surface Resistivity ⁽³⁾	1.E+04 – 1.E+06	Ω	ASTM D257
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating ⁽⁴⁾	1.6	mm	UL 94 by SABIC-IP
INJECTION MOLDING ⁽⁵⁾			
Drying Temperature	75 – 85	°C	
Drying Time	4 – 6	Hrs	
Melt Temperature	250 – 270	°C	
Front - Zone 3 Temperature	250 – 270	°C	

© 2023 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS[™]



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Middle - Zone 2 Temperature	250 – 270	°C	
Rear - Zone 1 Temperature	240 – 260	°C	
Mold Temperature	70 – 90	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (3) Measurement meets requirements as specified in ASTM D4496.
- (4) UL rating shown here is based on internal measurements.
- (5) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.