LNP™ 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	Carbon Powder, Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Polymer Types	Polyamide 6 (Nylon 6)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20260327

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/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	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/cm³	ISO 1183
Melt Volume Rate			
275°C/2.16 kg	10	cm³/10 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	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Front - Zone 3 Temperature	250 – 270	°C	
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.

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