

LNPTM STAT-KONTM COMPOUND PFG03EL

DESCRIPTION

LNP STAT-KON PFG03EL compound is based on Nylon 6 resin containing glass fiber and proprietary thermal filler. Added feature of this grade include: Electrically Conductive.

GENERAL INFORMATION	
Features	Conductive, Electrically Conductive, Food Contact Acceptable, No PFAS intentionally added
Fillers	Glass Fiber, Graphite
Polymer Types	Polyamide 6 (Nylon 6)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electrical Components and Infrastructure
Industrial	Industrial Material Handling
Industry	IndustrySegment
Packaging	Food & Beverage

TYPICAL PROPERTY VALUES

Revision 20241104

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, break, 5 mm/min	100	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.3	%	ISO 527
Tensile Modulus, 1 mm/min	13000	MPa	ISO 527
Flexural Stress, break, 2 mm/min	140	MPa	ISO 178
Flexural Modulus, 2 mm/min	12300	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched 80*10*4 +23°C	15	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL ⁽¹⁾			
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	210	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	205	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Density	1.57	g/cm ³	ISO 1183
Mold Shrinkage, flow ⁽²⁾	0.3 – 0.8	%	SABIC method
Mold Shrinkage, xflow ⁽²⁾	0.4 – 0.9	%	SABIC method
ELECTRICAL ⁽¹⁾			
Surface Resistivity	1E+04 – 1E+06	Ω	ANSI/ESD STM11.11
Surface Resistivity ⁽³⁾	1E+04 – 1E+06	Ω	ASTM D257
Volume Resistivity	1E+01 – 1E+03	Ω.cm	SABIC method
INJECTION MOLDING ⁽⁴⁾			
Maximum Moisture Content	0.15 – 0.25	%	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Temperature	80 – 90	°C	
Drying Time	4 – 6	Hrs	
Melt Temperature	265 – 295	°C	
Nozzle Temperature	260 – 290	°C	
Front - Zone 3 Temperature	265 – 295	°C	
Middle - Zone 2 Temperature	255 – 285	°C	
Rear - Zone 1 Temperature	245 – 275	°C	
Mold Temperature	80 – 100	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw speed (Circumferential speed)	0.15 – 0.25	m/s	

- (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) ASTM D257 corresponds with ASTM D4496
- (4) 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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