

LNPT[™] STAT-KON[™] COMPOUND WX11322

DESCRIPTION

LNP STAT-KON WX11322 compound is based on Polybutylene Terephthalate (PBT) resin containing glass fiber and carbon fiber. Added features of this grade include: Electrically Conductive, Flame Retardant, Low Warpage.

GENERAL INFORMATION

Features	Flame Retardant, Electrically Conductive, Low Warpage, Carbon fiber filled, High stiffness/Strength
Fillers	Carbon Fiber, Glass Fiber
Polymer Types	Polybutylene Terephthalate (PBT)
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	143	MPa	SABIC - Japan Method
Tensile Strain, break	9	%	SABIC - Japan Method
Flexural Stress, yield, 6.4 mm	208	MPa	ASTM D790
Flexural Modulus, 6.4 mm	11600	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, notched, 23°C	78	J/m	ASTM D256
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 6.4 mm, unannealed	205	°C	ASTM D648
Relative Temp Index, Elec ⁽²⁾	75	°C	UL 746B
Relative Temp Index, Mech w/impact ⁽²⁾	75	°C	UL 746B
Relative Temp Index, Mech w/o impact ⁽²⁾	75	°C	UL 746B
PHYSICAL ⁽¹⁾			
Specific Gravity	1.54	-	ASTM D792
Mold Shrinkage, flow, 1.5-3.2 mm ⁽³⁾	0.17	%	SABIC method
Mold Shrinkage, xflow, 1.5-3.2 mm ⁽³⁾	0.55	%	SABIC method
ELECTRICAL ⁽¹⁾			
Surface Resistivity ⁽⁴⁾	9.E+07	Ω	ASTM D257
FLAME CHARACTERISTICS ⁽²⁾			
UL Yellow Card Link	E207780-101014487	-	-
UL Recognized, 94V-0 Flame Class Rating	≥2	mm	UL 94
INJECTION MOLDING ⁽⁵⁾			
Drying Temperature	120	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	3 – 4	Hrs	
Drying Time (Cumulative)	12	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	250 – 265	°C	
Nozzle Temperature	245 – 260	°C	
Front - Zone 3 Temperature	250 – 265	°C	
Middle - Zone 2 Temperature	245 – 260	°C	
Rear - Zone 1 Temperature	240 – 255	°C	
Mold Temperature	65 – 90	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	50 – 80	rpm	
Shot to Cylinder Size	40 – 80	%	
Vent Depth	0.025 – 0.038	mm	

- (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) 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.
- (3) 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.
- (4) Measurement meets requirements as specified in ASTM D4496.
- (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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