

LNPTM STAT-KONTM COMPOUND EX11318C

DESCRIPTION

LNP STAT-KON EX11318C is a polyetherimide compound reinforced with carbon fiber for good stiffness, dimension stability and has extremely high level of cleanliness for the most demanding application. A unique feature of this material is its low C18-C40 hydrocarbons. This compound is manufactured using LNP CCS Technology.

TYPICAL PROPERTY VALUES

Revision 20191216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	211	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	21770	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	270	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	18140	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	375	J/m	ASTM D 4812
Izod Impact, notched, 23°C	48	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	203	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.6E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.3E-05	1/°C	ASTM E 831
Relative Temp Index, Mech w/impact ⁽¹⁾	105	°C	UL 746B
Relative Temp Index, Mech w/o impact ⁽¹⁾	105	°C	UL 746B
PHYSICAL			
Density	1.39	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1 – 0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.15 – 0.25	%	ASTM D 955
ELECTRICAL			
Volume Resistivity	5000 – 5000000	Ohm-cm	ASTM D 257
Surface Resistivity	5.E+03 – 5.E+05	Ohm	ASTM D 257
Static Decay, 5000V to <50V	0.1	< seconds	FTMS101B
FLAME CHARACTERISTICS⁽¹⁾			
UL Yellow Card Link	E207780-101260584	-	-
UL Recognized, 94V-0 Flame Class Rating	0.4	mm	UL 94
INJECTION MOLDING			
Drying Temperature	150	°C	
Drying Time	4 – 6	hrs	
Drying Time (Cumulative)	24	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	350 – 380	°C	
Nozzle Temperature	345 – 380	°C	
Front - Zone 3 Temperature	345 – 380	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Middle - Zone 2 Temperature	340 – 380	°C	
Rear - Zone 1 Temperature	330 – 380	°C	
Mold Temperature	135 – 165	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 – 0.076	mm	

(1) 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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