LNP™ STAT-KON™ COMPOUND RX05488

RCFL-4036 FR

DESCRIPTION

LNP STAT-KON* RX05488 is a compound based on Nylon 66 resin containing Carbon Fiber, Glass Fiber, PTFE. Added features of this material include: Electrically Conductive, Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20200109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	169	MPa	ASTM D 638
Tensile Strain, break	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	24610	MPa	ASTM D 638
Flexural Stress	255	MPa	ASTM D 790
Flexural Modulus	14470	MPa	ASTM D 790
Tensile Stress, break	175	MPa	ISO 527
Tensile Strain, break	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	18700	MPa	ISO 527
Flexural Stress	271	MPa	ISO 178
Flexural Modulus	17600	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	646	J/m	ASTM D 4812
Izod Impact, notched, 23°C	90	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	44	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	242	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	>240	°C	ISO 75/Af
PHYSICAL			
Density	1.7	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.32	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.24	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.67	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.47	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+06	Ohm	ASTM D 257
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E121562-101282847	-	-
UL Recognized, 94V-0 Flame Class Rating	1.5	mm	UL 94

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	280 – 305	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	95 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(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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