LNP™ STAT-KON™ COMPOUND LCF1506

REGION ASIA

DESCRIPTION

LNP™ STAT-KON™ LCF1506 compound is a 15% carbon fiber, 6% PTFE reinforced polycarbonate.

TYPICAL PROPERTY VALUES

Revision 20190812

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	111	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	111	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.1	%	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	160	MPa	ASTM D 790
Flexural Stress, brk, 2.6 mm/min, 100 mm span	154	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	9080	MPa	ASTM D 790
Flexural Modulus, 2.6 mm/min, 100 mm span	8410	MPa	ASTM D 790
K-factor xE-10, PV=2000 psi-fpm vs Steel	1000	-	SABIC method
Coefficient of Friction on steel, Static	0.41	-	ASTM D 1894
Coefficient of Friction on steel,Kinetic	0.19	-	ASTM D 1894
IMPACT			
Izod Impact, unnotched, 23°C	283	J/m	ASTM D 4812
Izod Impact, notched, 23°C	53	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	11	J	ASTM D 3763
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	141	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	137	°C	ASTM D 648
HDT, 0.45 MPa, 6.4 mm, unannealed	144	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	139	°C	ASTM D 648
Relative Temp Index, Elec	80	°C	UL 746B
Relative Temp Index, Mech w/impact	80	°C	UL 746B
Relative Temp Index, Mech w/o impact	80	°C	UL 746B
PHYSICAL			
Specific Gravity	1.31	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.05 – 0.15	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.2 – 0.3	%	SABIC method
ELECTRICAL			
Surface Resistivity	1.E+04	Ohm	ASTM D 257
Static Decay, 5000V to <50V	0.01	< seconds	FTMS101B
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-228432	-	-
UL Recognized, 94V-0 Flame Class Rating	≥1.5	mm	UL 94

(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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