

# LNPT<sup>™</sup> STAT-KON<sup>™</sup> COMPOUND DEP23FXC

DCL-4523 SM HP  
REGION ASIA

## DESCRIPTION

LNP STAT-KON<sup>®</sup> DEP23FXC is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 10% PTFE/Silicone. Added features include: Electrically Conductive. Wear Resistant, Superior Molding.

## TYPICAL PROPERTY VALUES

Revision 20180906

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, break	120	MPa	ASTM D 638
Tensile Strain, break	2	%	ASTM D 638
Tensile Modulus, 50 mm/min	10540	MPa	ASTM D 638
Flexural Stress	186	MPa	ASTM D 790
Flexural Modulus	9100	MPa	ASTM D 790
Tensile Stress, break	122	MPa	ISO 527
Tensile Strain, break	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	10200	MPa	ISO 527
Flexural Stress	186	MPa	ISO 178
Flexural Modulus	10300	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	411	J/m	ASTM D 4812
Izod Impact, notched, 23°C	64	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	16	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80°10°4 +23°C	27	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80°10°4 +23°C	7	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
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
CTE, -40°C to 40°C, flow	3.65E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.33E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.65E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.33E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80°10°4 sp=64mm	141	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80°10°4 sp=64mm	137	°C	ISO 75/Af
<b>PHYSICAL</b>			
Density	1.29	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.12	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.16	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.27	%	ISO 294

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.28	g/cm <sup>3</sup>	ISO 1183
<b>ELECTRICAL</b>			
Surface Resistivity	1.E+01 – 1.E+06	Ohm	ASTM D 257
<b>FLAME CHARACTERISTICS</b>			
UL Compliant, 94HB Flame Class Rating	1.5	mm	UL 94 by SABIC-IP
<b>INJECTION MOLDING</b>			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 – 330	°C	
Middle - Zone 2 Temperature	310 – 320	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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