LNP™ STAT-KON™ COMPOUND OEL13I

OCL-4013 HI

DESCRIPTION

LNP STAT-KON OEL13I is a compound based on PPS-Linear resin containing 15% Carbon Fiber, 5% PTFE. Added features of this grade include: High Impact, Wear Resistant, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	132	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	13950	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	195	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	10510	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	130	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	16590	MPa	ISO 527
Flexural Stress	218	MPa	ISO 178
Flexural Modulus, 2 mm/min	11920	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	601	J/m	ASTM D 4812
Izod Impact, notched, 23°C	93	J/m	ASTM D 256
Multiaxial Impact	3	J	ISO 6603
Instrumented Impact Total Energy, 23°C	16	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	35	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	273	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	213	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.4E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	260	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	212	°C	ISO 75/Af
PHYSICAL			
Density	1.37	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.2 – 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ASTM D 955
Density	1.37	g/cm³	ISO 1183
ELECTRICAL			
Volume Resistivity	1 – 3	Ohm-cm	ASTM D 257
Surface Resistivity	21.E+02 – 1.E+04	Ohm	ASTM D 257
Surface Resistivity, ROA	1.E+01 – 1.E+03	Ohm	IEC 60093
INJECTION MOLDING			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Melt Temperature	315 – 320	°C	
Front - Zone 3 Temperature	330 – 345	°C	
Middle - Zone 2 Temperature	320 – 330	°C	
Rear - Zone 1 Temperature	305 – 315	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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