LNP™ STAT-KON™ COMPOUND OE006C1

OC-1006

DESCRIPTION

LNP STAT-KON OE006C1 is a compound based on PPS - Linear resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	192	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.2	%	ASTM D 638
Tensile Modulus, 5 mm/min	23540	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	269	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	19900	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	173	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1	%	ISO 527
Tensile Modulus, 1 mm/min	21970	MPa	ISO 527
Flexural Stress	263	MPa	ISO 178
Flexural Modulus, 2 mm/min	19640	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	442	J/m	ASTM D 4812
Izod Impact, notched, 23°C	49	J/m	ASTM D 256
Multiaxial Impact	2	J	ISO 6603
Instrumented Impact Total Energy, 23°C	9	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	30	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	277	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	264	°C	ASTM D 648
CTE, -30°C to 30°C, flow	8.E-06	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	3.5E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	275	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	252	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.45	-	ASTM D 792
Density	1.44	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.08 – 0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+05	Ohm	ASTM D 257
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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