LNP™ STAT-KON™ COMPOUND OE004AE

OC-1004 EM

DESCRIPTION

LNP STAT-KON* OE004AE is a compound based on PPS - Branched resin containing 20% Carbon Fiber. Added features of this material are: Easy Molding, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	163	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	163	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	0.8	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	27160	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	215	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	15710	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	146	MPa	ISO 527
Tensile Stress, break, 5 mm/min	146	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	0.8	%	ISO 527
Tensile Strain, break, 5 mm/min	0.8	%	ISO 527
Tensile Modulus, 1 mm/min	19120	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	208	MPa	ISO 178
Flexural Modulus, 2 mm/min	16050	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	254	J/m	ASTM D 4812
Izod Impact, notched, 23°C	47	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	12	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	279	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	263	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	262	°C	ISO 75/Af
PHYSICAL			
Density	1.42	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.1 – 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.5 – 0.7	%	ASTM D 955
Density	1.42	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+06	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Melt Temperature	315 – 320	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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