LNP™ THERMOCOMP™ COMPOUND EC002XXQ

EC002XXQ

DESCRIPTION

LNP* THERMOCOMP* EC002XXQ is a compound based on Polyetherimide containing 10% Carbon Fiber. Added featurea of this material are: Electrically Conductive. FAR25.853 Compliant.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	197	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	11220	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	268	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	9660	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	524	J/m	ASTM D 4812
Izod Impact, notched, 23°C	69	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	213	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.3	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.24	%	ASTM D 570
Poisson's Ratio	0.44	-	ASTM E 132
ELECTRICAL			
Surface Resistivity	1.E+05 – 1.E+06	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	380 – 400	°C	
Front - Zone 3 Temperature	380 – 400	°C	
Middle - Zone 2 Temperature	380 – 400	°C	
Rear - Zone 1 Temperature	380 – 400	°C	
Mold Temperature	165 – 180	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	50 – 100	rpm	
Injection Speed	40 – 70	mm/s	

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