LNP™ THERMOCOMP™ COMPOUND RF0069S

RF-1006 FR HS

DESCRIPTION

LNP THERMOCOMP* RF0069S is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added features of this material include: Flame Retardant, Heat Stabilized.

TYPICAL PROPERTY VALUES

Revision 20200110

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	165	MPa	ASTM D 638
Tensile Strain, break	2.7	%	ASTM D 638
Flexural Stress	240	MPa	ASTM D 790
Flexural Modulus	12200	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	694	J/m	ASTM D 4812
Izod Impact, notched, 23°C	74	J/m	ASTM D 256
THERMAL			
Relative Temp Index, Elec [1]	130	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	105	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	115	°C	UL 746B
PHYSICAL			
Density	1.71	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1	%	ASTM D 955
ELECTRICAL			
Comparative Tracking Index (UL) {PLC}	3	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 0	≥1.7	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥1.7	mm	UL 746A
High Voltage Arc Track Rate {PLC}	1	PLC Code	UL 746A
Arc Resistance, Tungsten {PLC}	7	PLC Code	ASTM D 495
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E121562-101281595	-	-
UL Yellow Card Link 2	E207780-101281608	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.75	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	275 – 290	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Temperature	80 – 95	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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