LNP™ THERMOCOMP™ COMPOUND RF008ESZ

RF-1008 EM HS

DESCRIPTION

LNP THERMOCOMP RF008ESZ is a compound based on Nylon 6/6 containing 40% Glass Fiber. Added features of this grade include: Easy Molding, Heat Stabilized.

TYPICAL PROPERTY VALUES

Revision 20200108

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Hardness, Rockwell M	92	-	ASTM D 785
Tensile Stress, break, 5 mm/min	168	MPa	ISO 527
Tensile Modulus, 1 mm/min	12850	MPa	ISO 527
Flexural Modulus, 2 mm/min	10	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	94	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	224	°C	ISO 75/Af
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			
Specific Gravity	1.49	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.98	%	ASTM D 570
Density	1.49	g/cm³	ISO 1183
ELECTRICAL			
Hot-Wire Ignition (HWI), PLC 4	≥1.5	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥3	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 1	≥1.5	mm	UL 746A
High Voltage Arc Track Rate {PLC}	0	PLC Code	UL 746A
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E121562-101281596	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	280 – 305	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	95 – 110	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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