LNP™ VERTON™ COMPOUND RV007ESS

DESCRIPTION

LNP VERTON* RF-7007 EM HS is a compound based on Nylon 66 resin containing Long Glass. Added features of this material include: Easy Molding.

TYPICAL PROPERTY VALUES

Revision 20190312

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	204	MPa	ASTM D 638
Flexural Modulus	9880	MPa	ASTM D 790
Tensile Stress, break	214	MPa	ISO 527
Tensile Strain, break	2.1	%	ISO 527
Tensile Modulus, 1 mm/min	11970	MPa	ISO 527
Flexural Stress	309	MPa	ISO 178
Flexural Modulus	10240	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	277	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	29	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -40°C	25	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	245	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	252	°C	ISO 75/Af
Relative Temp Index, Elec (1)	95	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	65	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	75	°C	UL 746B
PHYSICAL			
Density	1.42	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.97	%	ASTM D 570
Density	1.42	g/cm³	ISO 1183
ELECTRICAL			
Hot-Wire Ignition (HWI), PLC 0	≥3	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 3	≥1.5	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥1.5	mm	UL 746A
High Voltage Arc Track Rate {PLC}	0	PLC Code	UL 746A
Arc Resistance, Tungsten {PLC}	6	PLC Code	ASTM D 495
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E45329-101282651	-	-
UL Yellow Card Link 2	E45329-101344688	-	-
UL Recognized, 94HB 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	%	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Melt Temperature	290 – 305	°C	
Front - Zone 3 Temperature	290 – 300	°C	
Middle - Zone 2 Temperature	290 – 300	°C	
Rear - Zone 1 Temperature	280 – 295	°C	
Mold Temperature	95 – 110	°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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