LNP™ VERTON™ COMPOUND RV00AEXP

RF-700-10

DESCRIPTION

LNP VERTON RV00AEXP is a compound based on PA 66 resin containing Long Glass Fiber.

TYPICAL PROPERTY VALUES

Revision 20191217

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	268	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2	%	ISO 527
Tensile Modulus, 1 mm/min	17600	MPa	ISO 527
Flexural Stress, break, 2 mm/min	405	MPa	ISO 178
Flexural Modulus, 2 mm/min	15500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	100	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	35	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	2.4E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.4E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	265	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	262	°C	ISO 75/Af
Relative Temp Index, Elec (1)	105	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	110	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	110	°C	UL 746B
PHYSICAL			
Mold Shrinkage, flow, 24 hrs	0.24	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.79	%	ISO 294
Density	1.57	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	0.8	%	ISO 62-1
ELECTRICAL			
Comparative Tracking Index (2)	0	V	IEC 60112
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 0	≥1.5	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 2	≥0.75	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥0.75	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	E45329-101282650	-	-
UL Recognized, 94HB Flame Class Rating	≥0.75	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
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.

(2) Value shown here is based on internal measurement.

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