

LNP* Verton* Compound RV00AES

Americas: COMMERCIAL

Also known as: RF-700-10 EM HS
Product Reorder Name: RV00AES

LNP VERTON* RV00AES is a compound based on Nylon 66 resin containing Long Glass. Added features of this material include: Easy Molding.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	254	MPa	ASTM D 638
Tensile Strain, break	1.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	17510	MPa	ASTM D 638
Flexural Stress	374	MPa	ASTM D 790
Flexural Modulus	14160	MPa	ASTM D 790
Tensile Stress, break	256	MPa	ISO 527
Tensile Strain, break	1.9	%	ISO 527
Tensile Modulus, 1 mm/min	18380	MPa	ISO 527
Flexural Stress	370	MPa	ISO 178
Flexural Modulus	15550	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, notched, 23°C	384	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	15	J	ASTM D 3763
Multiaxial Impact	15	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	89	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	45	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -40°C	38	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	241	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.85E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.73E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.86E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.73E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	258	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	253	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.58	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.18	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.22	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.18	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.22	%	ISO 294
Density	1.58	g/cm ³	ISO 1183

Source GMD, last updated:10/02/2004

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80	°C
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

Source GMD, last updated:10/02/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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