

LNP* Verton* Compound RV00CES

Americas: COMMERCIAL

Also known as: RF-700-12 EM HS
Product Reorder Name: RV00CES

LNP VERTON* RV00CES 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	270	MPa	ASTM D 638
Tensile Strain, break	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	19650	MPa	ASTM D 638
Flexural Stress	430	MPa	ASTM D 790
Flexural Modulus	18020	MPa	ASTM D 790
Tensile Stress, break	261	MPa	ISO 527
Tensile Strain, break	1.6	%	ISO 527
Tensile Modulus, 1 mm/min	23280	MPa	ISO 527
Flexural Stress	433	MPa	ISO 178
Flexural Modulus	18920	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, notched, 23°C	411	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	18	J	ASTM D 3763
Multiaxial Impact	18	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	102	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	54	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -40°C	43	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	247	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.76E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.36E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.7E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.3E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	252	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	252	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.71	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.44	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ISO 294
Density	1.71	g/cm ³	ISO 1183

Source GMD, last updated:2010/06/30

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:2010/06/30

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.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

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