

LNP* Verton* Compound RV00CEXS

Americas: COMMERCIAL

Also known as: VERTON RF-700-12 EM BK9001
Product Reorder Name: RV00CEXS

LNP* Verton* RV00CEXS is a compound based on Nylon 6 containing Long Glass Fiber. Characteristics of this grade are Easy Molding.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	254	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	22080	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	404	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	403	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	18100	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	264	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.6	%	ISO 527
Tensile Modulus, 1 mm/min	21860	MPa	ISO 527
Flexural Stress	404	MPa	ISO 178
Flexural Modulus, 2 mm/min	18740	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1170	J/m	ASTM D 4812
Izod Impact, notched, 23°C	410	J/m	ASTM D 256
Multiaxial Impact	9	J	ISO 6603
Instrumented Impact Total Energy, 23°C	13	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	62	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	37	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	252	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	248	°C	ASTM D 648
CTE, -30°C to 30°C, flow	4.93E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.3E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	253	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	247	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.72	-	ASTM D 792
Density	1.72	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.53	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 0.9	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.67	%	ISO 62

Source GMD, last updated:2009/08/27

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:2009/08/27

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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