

LNP* Verton* Compound NV004E

Americas: COMMERCIAL

Also known as: PCA-F-7004 EM
Product Reorder Name: NV004E

LNP VERTON* NV004E is a compound based on PC+ABS Blend resin containing Long Glass. Added features of this material include:
Easy Molding.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	119	MPa	ASTM D 638
Tensile Strain, break	2.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	6610	MPa	ASTM D 638
Flexural Stress	159	MPa	ASTM D 790
Flexural Modulus	5670	MPa	ASTM D 790
Tensile Stress, break	124	MPa	ISO 527
Tensile Strain, break	2.1	%	ISO 527
Tensile Modulus, 1 mm/min	7790	MPa	ISO 527
Flexural Stress	139	MPa	ISO 178
Flexural Modulus	6970	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	571	J/m	ASTM D 4812
Izod Impact, notched, 23°C	161	J/m	ASTM D 256
Izod Impact, notched, -40°C	166	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	16	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	41	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	18	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -40°C	17	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	133	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.32E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.68E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.45E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.77E-05	1/°C	ISO 11359-2
PHYSICAL	Value	Unit	Standard
Density	1.3	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.2 - 0.4	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.2 - 0.4	%	ISO 294
Density	1.3	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.1	%	ISO 62

Source GMD, last updated:10/02/2004

Processing

Parameter

Injection Molding	Value	Unit
Drying Temperature	80 - 95	°C
Drying Time	2 - 4	hrs
Maximum Moisture Content	0.04	%
Melt Temperature	275 - 290	°C
Front - Zone 3 Temperature	280 - 295	°C
Middle - Zone 2 Temperature	270 - 280	°C
Rear - Zone 1 Temperature	260 - 270	°C
Mold Temperature	60 - 95	°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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