



LNP™ VERTON™ Compound NV004E

Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound PCA-F-7004 EM

Product reorder name: NV004E

LNP VERTON™ NV004E is a compound based on PC+ABS Blend resin containing 20% Long Glass Fiber. Added features of this material include: Easy Molding, Structural.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1210	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	67400	kgf/cm ²	ASTM D 638
Flexural Stress	1630	kgf/cm ²	ASTM D 790
Flexural Modulus	57800	kgf/cm ²	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			
Izod Impact, unnotched, 23°C	58	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	16	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -40°C	16	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	163	cm-kgf	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			
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



LNP™ VERTON™ Compound NV004E

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, xflow	4.77E-05	1/°C	ISO 11359-2
PHYSICAL			
Density	1.3	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.4	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.2 - 0.4	%	ISO 294
Density	1.3	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.1	%	ISO 62



LNP™ VERTON™ Compound NV004E

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
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