



LNP™ VERTON™ Compound NV006E

Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound PCA-F-7006 EM

Product reorder name: NV006E

LNP VERTON NV006E is a compound based on PC+ABS blend resin containing 30% Long Glass Fiber. Added features of this material include: Easy Molding, Structural.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	1340	kgf/cm ²	ASTM D 638
Tensile Stress, break	1320	kgf/cm ²	ASTM D 638
Tensile Strain, yield	1.6	%	ASTM D 638
Tensile Strain, break	1.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	112400	kgf/cm ²	ASTM D 638
Flexural Stress	1960	kgf/cm ²	ASTM D 790
Flexural Modulus	84300	kgf/cm ²	ASTM D 790
Tensile Stress, yield	149	MPa	ISO 527
Tensile Stress, break	149	MPa	ISO 527
Tensile Strain, yield	2	%	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	10000	MPa	ISO 527
Flexural Stress	122	MPa	ISO 178
Flexural Modulus	9000	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	26	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	144	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	48	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	25	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	143	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	135	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.14E-05	1/°C	ASTM E 831





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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, xflow	5.22E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.26E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.23E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	136	°C	ISO 75/Af
PHYSICAL			
Density	1.39	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.11	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.52	%	ISO 294
Density	1.35	g/cm ³	ISO 1183





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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

