



LNP™ VERTON™ Compound MV006BS

Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound MFX-7006 HS BP
Product reorder name: MV006BS

LNP VERTON MV006BS is a compound based on Polypropylene resin containing 30% Long Glass Fiber. Added features of this grade include: Heat Stabilized, Burst Pressure, Structural, Chemically Coupled.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1060	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1060	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	70700	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1650	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	59500	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	96	MPa	ISO 527
Tensile Stress, break, 5 mm/min	87	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.2	%	ISO 527
Tensile Strain, break, 5 mm/min	2.2	%	ISO 527
Tensile Modulus, 1 mm/min	6330	MPa	ISO 527
Flexural Stress	145	MPa	ISO 178
Flexural Modulus, 2 mm/min	0	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	78	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	21	cm-kgf/cm	ASTM D 256
Multiaxial Impact	66	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	130	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	53	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	20	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	163	°C	ASTM D 648

(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.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	155	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.6E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.6E-05	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	162	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	155	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.09	-	ASTM D 792
Density	1.09	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.03	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 0.8	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62

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(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	220 - 250	°C
Front - Zone 3 Temperature	250 - 260	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	230 - 245	°C
Mold Temperature	40 - 65	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

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