



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



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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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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