



## LNP™ VERTON™ Compound MV00ASXP

### Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ VERTON™ Compound MFX-700-10 HS

Product reorder name: MV00ASXP

LNP VERTON\* MV00AS is a compound based on Polypropylene resin containing Long Glass. Added features of this material include: Chemically Coupled.

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, break	1330	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Strain, break	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	106500	kgf/cm <sup>2</sup>	ASTM D 638
Flexural Stress	1900	kgf/cm <sup>2</sup>	ASTM D 790
Flexural Modulus	95200	kgf/cm <sup>2</sup>	ASTM D 790
Tensile Stress, break	141	MPa	ISO 527
Tensile Strain, break	1.7	%	ISO 527
Tensile Modulus, 1 mm/min	13870	MPa	ISO 527
Flexural Stress	214	MPa	ISO 178
Flexural Modulus	11140	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, notched, 23°C	21	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	132	cm-kgf	ASTM D 3763
Multiaxial Impact	132	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	66	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	29	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	157	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.36E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.57E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.37E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.58E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	164	°C	ISO 75/Bf

(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 <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>THERMAL</b>			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	160	°C	ISO 75/Af
<b>PHYSICAL</b>			
Density	1.33	g/cm <sup>3</sup>	ASTM D 792
Wear Factor Washer	73	10 <sup>-4</sup> in <sup>3</sup> -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.34	-	ASTM D 3702 Modified: Manual
Static COF	0.52	-	ASTM D 3702 Modified: Manual
Density	1.33	g/cm <sup>3</sup>	ISO 1183

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
<b>Injection Molding</b>		
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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