



LNP™ VERTON™ Compound MV00AS

Americas: COMMERCIAL

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

Product reorder name: MV00AS

LNP VERTON* MV00AS is a compound based on Polypropylene resin containing 50% Long Glass Fiber. Added features of this material include: Chemically Coupled, Heat Stabilized, Structural.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1330	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	106500	kgf/cm ²	ASTM D 638
Flexural Stress	1900	kgf/cm ²	ASTM D 790
Flexural Modulus	95200	kgf/cm ²	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
IMPACT			
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 ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	29	kJ/m ²	ISO 180/1A
THERMAL			
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



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	160	°C	ISO 75/Af
PHYSICAL			
Density	1.33	g/cm³	ASTM D 792
Wear Factor Washer	73	10 ⁻¹⁰ in ⁵ -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/cm³	ISO 1183



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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