



LNP™ VERTON™ Compound MV00ES

Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound MFX-700-14 HS

Product reorder name: MV00ES

LNP VERTON MV00ES is primarily a concentrate used for blending purposes. This is a 70% long glass fiber Polypropylene compound. Added features of this grade are: Heat Stabilized

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1010	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1	%	ASTM D 638
Tensile Modulus, 5 mm/min	205500	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1560	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	165100	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	107	MPa	ISO 527
Tensile Strain, break, 5 mm/min	0.8	%	ISO 527
Tensile Modulus, 1 mm/min	20500	MPa	ISO 527
Flexural Stress	171	MPa	ISO 178
Flexural Modulus, 2 mm/min	16900	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	55	cm-kgf/cm	ASTM D 4812
Multiaxial Impact	33	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	90	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	39	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	29	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -40°C	118	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	150	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.3E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.3E-05	1/°C	ASTM D 696
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	154	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.59	-	ASTM D 792



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Density	1.59	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.03	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 0.7	%	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