



LNP™ VERTON™ Compound UV00ASU

Americas: COMMERCIAL

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

Product reorder name: UV00ASU

LNP VERTON UV00ASU is a compound based on Polyphthalamide resin containing 50% Long Glass Fiber. Added features of this material include: UV Stabilized, Heat Stabilized, Structural.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	2620	kgf/cm ²	ASTM D 638
Tensile Stress, break	2620	kgf/cm ²	ASTM D 638
Tensile Strain, yield	1.8	%	ASTM D 638
Tensile Strain, break	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	196800	kgf/cm ²	ASTM D 638
Flexural Stress	3930	kgf/cm ²	ASTM D 790
Flexural Modulus	175700	kgf/cm ²	ASTM D 790
Tensile Stress, yield	222	MPa	ISO 527
Tensile Stress, break	222	MPa	ISO 527
Tensile Strain, yield	1.4	%	ISO 527
Tensile Strain, break	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	19220	MPa	ISO 527
Flexural Stress	393	MPa	ISO 178
Flexural Modulus	17000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	125	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	27	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	100	cm-kgf	ASTM D 3763
Multiaxial Impact	73	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	78	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	41	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	291	°C	ASTM D 648



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THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	266	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.06E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.44E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.1E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.5E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	296	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	272	°C	ISO 75/Af
PHYSICAL			
Density	1.67	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.48	%	ISO 294
Density	1.66	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15	%
Melt Temperature	315 - 330	°C
Front - Zone 3 Temperature	330 - 345	°C
Middle - Zone 2 Temperature	320 - 330	°C
Rear - Zone 1 Temperature	315 - 325	°C
Mold Temperature	140 - 165	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm