



LNP™ VERTON™ Compound UX03320

Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound PDX-U-03320

Product reorder name: UX03320

LNP VERTON UX03320 is a compound based on Polyphthalamide resin containing proprietary fillers. Added feature of this grade is: Structural.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	2240	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	185500	kgf/cm ²	ASTM D 638
Flexural Stress	3050	kgf/cm ²	ASTM D 790
Flexural Modulus	183500	kgf/cm ²	ASTM D 790
Tensile Stress, break	200	MPa	ISO 527
Tensile Strain, break	1.9	%	ISO 527
Tensile Modulus, 1 mm/min	20300	MPa	ISO 527
Flexural Stress, break, 2 mm/min	360	MPa	ISO 178
Flexural Modulus, 2 mm/min	17700	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	81	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	30	cm-kgf/cm	ASTM D 256
Multiaxial Impact	193	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	152	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	70	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	38	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	260	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.2E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.2E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.2E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.2E-05	1/°C	ISO 11359-2



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	275	°C	ISO 75/Af
PHYSICAL			
Density	1.63	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.05 - 0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.08 - 0.2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.06	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.15	%	ISO 294
Spiral flow (1mm)	30	cm	SABIC Method
Spiral flow (3mm)	70	cm	SABIC Method
Density	1.63	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.3	%	ISO 62
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	0.8	mm	UL 94



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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