



LNP™ VERTON™ Compound RVL36

Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ VERTON™ Compound RFL-8036

Product reorder name: RVL36

LNP VERTON RVL36 is a compound based on Nylon 66 resin containing Long Glass Fiber, PTFE.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break, 5 mm/min	185	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.9	%	ISO 527
Flexural Stress, yield, 2 mm/min	265	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3.3	%	ISO 178
Flexural Modulus, 2 mm/min	8900	MPa	ISO 178
Flexural Strain, break, 2 mm/min, 60°C	3.9	%	ISO 178
Flexural Strain, break, 2 mm/min, 100°C	4	%	ISO 178
Flexural Strain, break, 2 mm/min, 150°C	3.6	%	ISO 178
Flexural Strain, break, 2 mm/min, 200°C	3.4	%	ISO 178
Flexural Stress, yield, 2 mm/min, 60°C	208	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 100°C	155	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 150°C	129	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 200°C	105	MPa	ISO 178
Flexural Modulus, 2 mm/min, 60°C	7100	MPa	ISO 178
Flexural Modulus, 2 mm/min, 100°C	5800	MPa	ISO 178
Flexural Modulus, 2 mm/min, 150°C	5200	MPa	ISO 178
Flexural Modulus, 2 mm/min, 200°C	4800	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*3 -40°C	15	kJ/m ²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	54	kJ/m ²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -40°C	50	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m ²	ISO 180/1A



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THERMAL			
Specific Heat	1846	J/kg-K	ASTM E 1269
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	258	°C	ISO 75/Af
Thermal Conductivity	0.25	W/m-K	ASTM D 5930
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.25	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.69	%	ISO 294
Wear Factor Washer	12	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Density	1.53	g/cm ³	ISO 1183
Water Absorption, 23°C/24hrs	1.37	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.4	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	290 - 305	°C
Front - Zone 3 Temperature	290 - 300	°C
Middle - Zone 2 Temperature	290 - 300	°C
Rear - Zone 1 Temperature	280 - 295	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm