



LNP™ VERTON™ Compound RVL29ESS

Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ VERTON™ Compound RFL-8029
Product reorder name: RVL29ESS

LNP VERTON RVL29ESS is a compound based on PA 66 resin, containing Long Glass Fiber, PTFE. Added features include; Internally Lubricated.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break, 5 mm/min	231	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.3	%	ISO 527
Flexural Stress, yield, 2 mm/min	361	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3.2	%	ISO 178
Flexural Modulus, 2 mm/min	13600	MPa	ISO 178
Flexural Strain, break, 2 mm/min, 60°C	3.6	%	ISO 178
Flexural Strain, break, 2 mm/min, 100°C	3.2	%	ISO 178
Flexural Strain, break, 2 mm/min, 150°C	3.5	%	ISO 178
Flexural Strain, break, 2 mm/min, 200°C	2.7	%	ISO 178
Flexural Stress, yield, 2 mm/min, 60°C	300	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 100°C	256	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 150°C	204	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 200°C	162	MPa	ISO 178
Flexural Modulus, 2 mm/min, 60°C	11700	MPa	ISO 178
Flexural Modulus, 2 mm/min, 100°C	10500	MPa	ISO 178
Flexural Modulus, 2 mm/min, 150°C	9000	MPa	ISO 178
Flexural Modulus, 2 mm/min, 200°C	8900	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*3 -40°C	28	kJ/m ²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	82	kJ/m ²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -40°C	74	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	30	kJ/m ²	ISO 180/1A



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
Specific Heat	1478	J/kg-K	ASTM E 1269
CTE, 23°C to 60°C, flow	2.1E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	4.9E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	258	°C	ISO 75/Af
Thermal Conductivity	0.27	W/m-K	ASTM D 5930
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.13	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.48	%	ISO 294
Wear Factor Washer	21	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.39	-	ASTM D 3702 Modified: Manual
Static COF	0.4	-	ASTM D 3702 Modified: Manual
Density	1.65	g/cm ³	ISO 1183
Water Absorption, 23°C/24hrs	1.19	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.46	%	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