



## LNP™ VERTON™ Compound RV0079

### Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound RF-7007 FR

Product reorder name: RV0079

LNP VERTON™ RV0079 is a compound based on Nylon 66 resin containing 35% Long Glasss Fiber. Added features of this material include: Flame Retardant, Structural.

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 5 mm/min	1970	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1970	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	150700	kgf/cm <sup>2</sup>	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	2450	kgf/cm <sup>2</sup>	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2450	kgf/cm <sup>2</sup>	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	98900	kgf/cm <sup>2</sup>	ASTM D 790
Tensile Stress, yield, 5 mm/min	177	MPa	ISO 527
Tensile Stress, break, 5 mm/min	177	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.7	%	ISO 527
Tensile Strain, break, 5 mm/min	1.7	%	ISO 527
Tensile Modulus, 1 mm/min	12380	MPa	ISO 527
Flexural Modulus, 2 mm/min	10810	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	82	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	32	cm-kgf/cm	ASTM D 256
Multiaxial Impact	57	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	117	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	52	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	36	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 0.45 MPa, 3.2 mm, unannealed	259	°C	ASTM D 648



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TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	254	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.9E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.8E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	259	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	255	°C	ISO 75/Af
<b>PHYSICAL</b>			
Density	1.69	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.59	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 0.9	%	ASTM D 955
Density	1.69	g/cm <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.75	%	ISO 62
<b>FLAME CHARACTERISTICS</b>			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1.7	mm	UL 94 by SABIC-IP



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<b>PROCESSING PARAMETERS</b>	<b>TYPICAL VALUE</b>	<b>Unit</b>
<b>Injection Molding</b>		
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