



## LNP™ VERTON™ Compound E9007E

### Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound E9007E

Product reorder name: E9007E

LNP VERTON E9007E is a compound based on Polyetherimide (PEI) containing 35% Long Carbon Fiber. Added features of this grade include: Structural, High Temperature

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, brk, Type I, 5 mm/min	2720	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1	%	ASTM D 638
Tensile Modulus, 5 mm/min	326300	kgf/cm <sup>2</sup>	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	4370	kgf/cm <sup>2</sup>	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	294600	kgf/cm <sup>2</sup>	ASTM D 790
Tensile Stress, break, 5 mm/min	253	MPa	ISO 527
Tensile Strain, break, 5 mm/min	0.9	%	ISO 527
Tensile Modulus, 1 mm/min	33000	MPa	ISO 527
Flexural Stress	411	MPa	ISO 178
Flexural Modulus, 2 mm/min	28500	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	53	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	17	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80°10*4 +23°C	34	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80°10*4 +23°C	16	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
CTE, -30°C to 30°C, flow	8.E-06	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	2.2E-05	1/°C	ASTM D 696
HDT/Af, 1.8 MPa Flatw 80°10*4 sp=64mm	215	°C	ISO 75/Af
<b>PHYSICAL</b>			
Specific Gravity	1.41	-	ASTM D 792

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.  
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
<b>Injection Molding</b>		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15	%
Melt Temperature	350 - 380	°C
Front - Zone 3 Temperature	350 - 380	°C
Middle - Zone 2 Temperature	350 - 380	°C
Rear - Zone 1 Temperature	345 - 370	°C
Mold Temperature	175 - 200	°C
Back Pressure	0.3 - 0.4	MPa
Screw Speed	20 - 40	rpm

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