



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 ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	2720	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1	%	ASTM D 638
Tensile Modulus, 5 mm/min	326300	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	4370	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	294600	kgf/cm ²	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
IMPACT			
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 ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m ²	ISO 180/1A
THERMAL			
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
PHYSICAL			
Specific Gravity	1.41	-	ASTM D 792





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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
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

