LNP™ VERTON™ Compound EV008

Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound EXVT0010
Product reorder name: EV008

LNP VERTON EV008 is a compound based on Polyetherimide containing 40% Long Glass Fiber. Added feature of this grade is: Structural.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1900	kgf/cm²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D 638
Tensile Modulus, 5 mm/min	153900	kgf/cm²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2730	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	146800	kgf/cm²	ASTM D 790
Compressive Strength	282	MPa	SABIC Method
IMPACT			
Izod Impact, unnotched, 23°C	4	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	206	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.5E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.1E-05	1/°C	ASTM D 696
PHYSICAL			
Specific Gravity	1.6	-	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955

(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:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA.

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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 - 360	°C
Front - Zone 3 Temperature	350 - 360	°C
Middle - Zone 2 Temperature	350 - 360	°C
Rear - Zone 1 Temperature	345 - 360	°C
Mold Temperature	150 - 160	°C
Back Pressure	0.3 - 0.4	MPa
Screw Speed	30 - 60	rpm

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