

VETRONITE EGS 619 HTC

HIGH THERMAL CONDUCTIVITY GLASS-FABRIC EPOXY COMPOSITE



APPLICATION

- + **Electrical insulating** and **heat dissipating material** for **electro-technical equipment**
- + Applications comprise **medical equipment** like **MRI** and **CT scanners**

BENEFITS

- + **Strong** composite laminate made of **glass cloth** and **high temperature epoxy** with **thermal conductive filler**
- + **Outstanding thermal conductivity**
- + **Excellent mechanical** and **electrical properties**
- + **Flame retardant** acc. to **UL 94, class V-0**



	Unit	Value
Mechanical properties		
Flexural strength	MPa (psi)	450 (65,300)
E-modulus	MPa (Mpsi)	24000 (3.5)
Compressive strength //, at 23°C	MPa (psi)	250 (36,300)
Compressive strength ⊥, at 23°C	MPa (psi)	420 (60,900)
Tensile strength	MPa (psi)	300 (43,500)
Thermal properties		
Temperature index (TI)	°C	130 (Class B)
Thermal conductivity (ISO 8301)	W/m K (Btu/foot h °F)	0.86 (0.5)

	Unit	Value
Electrical properties		
Insulation resistance	Ohm	10 ¹²
Breakdown voltage //, 90°C in oil	kV	65
Electric strength ⊥, 90°C in oil	kV/mm	15
Comparative tracking index CTI		300
Relative permittivity at 1 MHz		5.3
Dissipation factor at 1 MHz		0.01
Physical properties		
Density	g/cm ³ (lb/ft ³)	2.05 (128)

Sheet sizes 1270 × 1070mm (50in × 42in), 1170 × 1070mm (46in × 42in) (others on request)

Thickness range 0.2 to 50 mm (8 to 2000 mils)

VALUE PROPOSITION

- + Record of many customers successfully using Vetronite EGS 619 HTC for many years for specific applications in medical technology
- + VRI Composites decade-long experience in composite manufacturing combined with state-of-the-art production facilities lead to high-quality products



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VRI COMPOSITES IS NOW A DIVISION OF THE GUND COMPANY

