



Technical Data Sheet

EverTherm SH series is a highly sustainable and extremely versatile material. This product has uniform foam structure, excellent abrasion resilience, will not break down over time and is flame retardant. It can also be used for sound & heat insulation, moisture barrier, shock absorption, primarily for communications, electric vehicle (EV) power and electronics industries.



Material Properties

- Excellent flame retardancy
- Good electrical insulation
- Excellent elasticity high very low compression set
- Extreme temperature resistance, good sealing
- Will not break down over time

Applications

- ✓ Communications,
- ✓ Electric Vehicle energy
- ✓ Electronics,
- ✓ Lighting equipment cabinet
- ✓ Hardware and other fields



EVSH600

Parameter	Unit	Test Standard
Color	Visual	Gray
Thickness	mm	1.0-12
Density (25°C)	g/cm ³	0.45
Hardness	shore C	5-85, Common 15/20
Substrate	Silicone	
Compression deformation (maximum)	%	70°C<1, 100°C<5
Compression stress	65kPa	ASTM D1056/compress 25% stress
Elongation	%	80
Flammability	UL94	V-0
Flame spread index	Ls	25
Vapor Density	Ds	Test in 4min < 50 Test in 1.5min < 20
Toxic gas diffusion level	SMP-800C	PASS
Water absorption (Room temperature 24hr)	%	1.4
Dielectric constant	1kHz	1.42
Dielectric strength	KV/mm	3.58
Dry arc resistance	s	92
Volume resistivity	Ω·cm	1015
Thermal conductivity	W/m.k	< 0.1
Low temperature deflection (-55°C)	ASTM D 1056	PASS
Recommend temperature	°C	-55 ~ 220
Recommended maximum temperature for intermittent use	°C	250
RoHS	PASS	IEC 62321
Halogen	PASS	EN14582
REACH	PASS	EN14372

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Note: The information provided herein is accurate at time of publication. It is the responsibility of the end-user to confirm compliance to their application. All test data is typical. Therefore, these recommendations and data are for reference only and not as a product warranty.