



# FREVA™ SEN60

## Fire Retardant Sheet

- ✓ **FREVA™ SEN60** is an EVA based fire retardant sheet with excellent flexibility for fireproofing application.
- ✓ **FREVA™ SEN60** is a new organic-inorganic green material that is halogen-free, formaldehyde-free, toluene-free, and heavy metal free. When it is burned, most of the emission is water vapor with very low smoke.
- ✓ **FREVA™ SEN60** composited by non-halogen flame retardant polymer, which can resist >1000 °C blaze flame for more than 90 seconds. According to our test result, it can achieve a UL-94 V0 rating at 0.6 mm. Glass fibers composited with **FREVA™ SEN60** can achieve a UL-94 5VA rating at 1.1 mm.
- ✓ Flame gun test video: <https://www.youtube.com/watch?v=rX91wbeEQ30>
- ✓ Standard roll widths: 1200mm
- ✓ Standard roll length: 50m, 100m, 200m

Properties	Test Method	Test Condition	Unit	FREVA™ SEN60
Thickness	--	--	mm	0.6
Specific Gravity	ASTM D-792	23 °C	g/cm <sup>3</sup>	1.6
Tensile Stress at Break	ASTM D-638	0.6mm	kg/cm <sup>2</sup>	15
Elongation at Break	ASTM D-638	0.6mm	%	350
Dielectric Breakdown Voltage	ASTM D-149	3mm	KV	12.1
Dielectric Strength	ASTM D-149	3mm	KV/mm	4.0
Thermal Conductivity	ISO 22007-2	6mm	W/mK	1.50
Thermal Resistance	ISO 22007-2	6mm	°C/W	0.4
Flammability Rating	UL-94	V-0	mm	0.6
Flammability Rating	UL-94	5VA*	mm	1.1

\*The test specimen is sandwich-structured, made of three layers: a 0.1mm fiberglass core layer, and a 0.5mm FREVA™ SEN60 skin-layer bonded to each side.

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Values included in this data sheet are based on limited laboratory test specimens. These values are typical values and are not meant to be used for setting maximum or minimum values for specification purposes. Any determination of the suitability of the materials shown in this property data sheet for use by the end user is the sole responsibility of the user, who must assure themselves that the material as subsequently processed meets the need of his particular product or use. To the best of our knowledge the information in this publication is accurate and reliable, USI does not assume any liability whatsoever for the accuracy of this information.

USI Corporation

No.330, Fengren Rd.,Renwu Dist., Kaohsiung City 81449, Taiwan (R.O.C.)

(886-2)-8751-6888 [www.usife.com](http://www.usife.com)