

Sheetex® V-1000

Description

Sheetex® **V-1000** is a vinyl ester sheet molding compound designed to be co-cured with Simprex® M850 prepreg under compression or vacuum bag molding.

Sheetex® **V-1000** is available in chopped strand mat fiberglass. It has been designed to provide high performance when co-cured with Simprex® M850.

Sheetex® **V-1000** can be black pigmented if it has to be co-cured with carbon fiber Simprex® M850 prepreg.

Uncured Sheetex® V-1000 Properties

Chopped mat	E-Glass	
Mat Areal Weight (g/m²)	≈ 450	
Resin Areal Weight (g/m²)	≈ 1150	
Curing time at 160°C (min)	5	
Curing time at 140°C (min)	10	
Curing time at 120°C (min)	20	
Maximum Tg - DSC (°C)	140	

Key Features and benefits

Uncured sheet

- ✓ Shelf life: 12 months @ 70°F (21°C), and 24 months @ 41°F (5°C).
- ✓ Versatile curing temperature: 250-320°F (121-160°C).
- ✓ Suitable for low pressure: 1-3 bar.

Typical Mechanical Performance

P max,		1.75	1.6 *
g/cm ³		D-792	TS EN ISO 1183
		ASTM	
Tensile,		ASTM D-638	ISO 527-4
Strength,	MPa	105	559.78*
	Ksi	15.2	-
Modulus,	GPa	11.4	-
	Msi	1.6	-
Flexural,		ASTM D-790	ISO 14125
Strength,	MPa	228	308.1*
	Ksi	33.1	-
Modulus,	GPa	11.4	-
	Msi	1.6	-

^{*}Specimen V1000, 9mm, cured 20min at 120°C and 15min at 145°C.



Storage and Handling

All prepregs are wrapped in a barrier film immediately after impregnation. During storing and handling, the following notes must be considered:

- Prepregs should be stored in their original packaging barrier film, or an equivalent film, at recommended temperature.
- If stored in a cold chest, before use, the prepreg roll has to be out of the freezer and remain tightly sealed for 48 hours, time required to reach ambient room temperature.
- It is highly recommended to handle the prepreg at a clean area where relative humidity is ≤ 50% and ambient temperature is 20-23°C.