

## Sheetex® FP-1000

### Description

Sheetex® **FP-1000** is a phenolic sheet molding compound. It is available in chopped strand mat fiberglass.

Sheetex® **FP-1000** is suitable for co-curing with Phepreg® **FP-721** prepreg by compression or vacuum bag molding.

Sheetex® **FP-1000** is compatible with Ep-preg® **F64-A1**. They can be co-cured for upright structural properties and good FST performance.

### Key Features and benefits

#### • **Uncured sheet**

- ✓ Shelf life: **4 months @ 70°F (21°C)**, and 24 months @ 0°F (-18°C).
- ✓ Versatile curing temperature: 221-320°F (**105-160°C**).
- ✓ Suitable for low pressure: 1-3 bar.

### Uncured Sheetex® FP-1000 Properties

Chopped mat	E-Glass
Mat Areal Weight (g/m <sup>2</sup> )	≈ 450
Resin Areal Weight (g/m <sup>2</sup> )	≈ 1150
Curing time at 160°C (min)	5
Curing time at 140°C (min)	10
Curing time at 120°C (min)	20
Maximum* T <sub>g</sub> - DSC (°C)	285

\* 60 min post-cured at 200°C

### Burning Performance as per FAR 25.853

#### • **Flammability**

- ✓ Extinguishing time Nil
- ✓ Burn length Nil
- ✓ Drip extinguishing time No dripping

#### • **Heat Release**

- ✓ HR - up to 3 min. (kW.min/m<sup>2</sup>) Nil
- ✓ HR @ 4 min. (kW.min/m<sup>2</sup>) 5
- ✓ HR @ 4 min. (kW/m<sup>2</sup>) 20

#### • **Smoke Density @ 4 min.**

- ✓ With pilot flame 12
- ✓ Without pilot flame 10

## 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  $\leq 50\%$  and ambient temperature is 20-23°C.

## Safety Precautions

Usual precautions, as following, must be considered:

- During lamination, workers must avoid skin contact by wearing appropriate disposable protective gloves.
- Workers must wear clean protective coveralls or equivalent clothes before laminating or sanding.
- Workers must wear protective eyes glasses. In case of contamination, eyes must be flushed for 15 min and then medical treatment must be applied.
- After working, hands and contaminated skin, if any, have to be washed with soap and warm water. This has to be implemented as a routine practice.