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ETCPREG™-MTC™ 2RF(S)

ETCPREG™-MTC™ 2RF(S) is a medium temperature curing flame retardant epoxy based prepreg which meets the requirements of FAR 25.853. ETCPREG™-MTC™ 2RF(S) is designed for the traditional autoclave and press moulding processes. A 60-minute curing at 150°C can develop the flame retardant properties of the cured composite materials. Unidirectional and woven fabric prepreg with ETCPREG™-MTC™ 2RF(S) will retain tack a few days at room temperature.

■ Description

- ◇ Epoxy based matrix
- ◇ Good mechanical properties
- ◇ Good out life of prepreggs
- ◇ No water released
- ◇ FST and HRR requirements

■ Curing cycles:

ETCPREG™-MTC™ 2RF(S) can be cured at the temperature of 150°C . Low, medium and high curing pressure may be applied during ETCPREG™-MTC™ 2RF(S) curing process to obtain a proper surface condition and desired resin content. Recommended

cure cycle is $150^{\circ}\text{C}/60\text{min}$ with a desired heating rate to control the resin flow. The viscosity varied with different heating rates is demonstrated below.

- I. The time applying pressure should be adjusted with varied shapes and cross-sections.
- II. The effective pressure should be also adjusted with different requirements of cured products such as fibre/resin fraction, amendment of thickness etc.

■ FAR flammability requirements

1. FAR 25.853 (a) Part I
2. FAR 25.853 (d) Part IV
3. FAR 25.853 (d) Part V
4. ABD0031/CS-25.853

■ Handling and storage

Storage temperature:

Out life: 4 weeks at 21°C

Shelf life: 4°C for 3 months or -15°C for 6 months.

Handling: Wear protective mask /glasses/gloves/clothing. Wash thoroughly after handling.

■ Important

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