

TMI-CBS

375°F (191°C) High Temp Cured Back-Up Structure Carbon/Epoxy Laminate

Description:

TMI-CBS is a high temperature pressed cured, balanced carbon fiber reinforced epoxy resin prepreg laminate. Typical applications include but are not limited to; composite tooling back-up structures (EGG Crating). Recommended service temperature for TMI-CBS is 375°F (191°C) and has a max Tg of 400°F (204°C). TMI-CBS laminate board comes with a standard nylon peel ply co-cured on both outer laminate surfaces. Unless otherwise requested, nylon peel ply may be removed by the user.

Typical Properties:

(values are average and do not constitute a specification)

Laminate Construction: Uni Carbon Fiber Center 0/90, Carbon Fabric Outer Plies 0/90, Nylon Peel Ply Finish both sides
Cure @ 375°F (191°C) for 120 mins. Post Cure @ 400°F (204°C) for 60 mins.

| Mechanical Data: | Results: |
|--|--------------------|
| Max Tg (DMA) | 400°F (191°C) |
| Flexural Strength/ Modulus Strength @ RT | 121.9 ksi/ 8.9 msi |
| Flexural Strength/ Modulus Strength @ 350°F | 49.8 ksi/ 7.4 msi |
| Flex Str./ Mod Str. @ RT after 100 thermal cycles | 122.8 ksi/ 9.1 msi |
| Flex Str./ Mod Str. @ 350°F after 100 thermal cycles | 58.7 ksi/ 8.1 msi |
| CTE, X-Y (by TMA, um/mdeg°C) | 2.34 to 2.91 |

The above values are "Typical Values" which have a nominal range about them and are not intended for specification purposes.

Availability:

- Standard board dimensions: 0.250" THK x 48" x 96"
- Custom thickness, and sizes available upon request. (Minimum may apply)
- (Max thickness 0.500" x 60" x 120")

Storage:

- Store in original packaging protected from the environment.

Health & Safety:

Handling of these products must conform to individual company guidelines and health and safety regulations.

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