

PRODUCT DATA SHEET



TENCATE ADVANCED COMPOSITES

SF-4 Syntactic Film

PRODUCT TYPE

400°F (204°C) Cure
BMI Syntactic Film

TYPICAL APPLICATIONS

- Aerospace Structures
- Radomes

SHELF LIFE

Out Life

14 days out life 77°F (25°C)

Frozen Storage Life

6 months storage life at <0°F (-18°C)

Tack life is the time during which the prepreg retains enough tack, drape and handling for easy component lay-up.

Out life is the maximum time allowed at room temperature before cure.

Revised 1/2017

All data given is based on representative samples of the materials in question. Since the method and circumstances under which these materials are processed and tested are key to their performance, and TenCate Advanced Composites has no assurance of how its customers will use the material, the corporation cannot guarantee these properties.

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SF-4_DS_012417

PRODUCT DESCRIPTION

SF-4 is a BMI syntactic film which provides excellent elevated temperature properties. SF-4 is available in unsupported or supported continuous film form in thicknesses from 10 mils to 300 mils. SF-4 has been evaluated and qualified in aerospace structures.

PRODUCT BENEFITS/FEATURES

- Excellent ambient and elevated temperature properties processing
- Good handleability, drape, and processing
- Low dielectric and loss tangent over wide thermal and electrical range
- Good moisture resistance
- Good toughness
- Oven, autoclave, and compression consolidation
- Light weight film core; 39 pcf, nom (0.62 g/cc)

TYPICAL CURE PARAMETERS

- Apply vacuum. For autoclave or press applications, pressurize to 45-100 psi.
- Heat to 400°F (+10°F/-0°F) @ 5°F ± 3°F/min or 204°C (+5/-0°C) @ 3±2°C/min.
- Hold at 400°F (204°C) for 2 hours (+15 min/-0 min). Cool.
Postcure at 482°F (250°C) for up to 6 hours (+30 minutes/-0 minutes).

PRODUCT FORMS

- Film to 50 Inches (127 Centimeter) Wide

SF-4 SYNTACTIC FILM PHYSICAL PROPERTIES

Property	Value
Density	39 pcf, nom. (0.62 g/cc)
Tg (DMA); Dry / Wet	563°F (295°C) / 581°F (305°C)

TENCATE ADVANCED COMPOSITES

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