

aeroglide[®] Surfacing Film

Aeroglide[®] is an epoxy-based composite surfacing film which can be oven or autoclave cured at either 250°F/120°C or 350°F/180°C to eliminate surface porosity for composite parts.

Key Features & Benefits

- Provides a high quality paintable surface
- Minimizes surface porosity
- Natural and Gray color available
- Good tack and drapability
- Co-curable with most epoxy prepreg materials
- Improved surface finish on honeycomb core structures
- UV resistant
- Compatible with lightning strike screens and foils

Product Forms

- 0.030 or 0.0145 psf standard weight surfacing film with woven fiberglass reinforcement
- Available in additional weights upon request
- 0.030 psf film available in 50" wide rolls
- 0.0145 psf film available in 38" wide rolls

Processing

- The film should be removed from cold storage and allowed to warm to room temperature prior to opening sealed bag.

Prepreg Storage Life

- Out Life: 45 days @ 75°F
- Shelf Life: 6 months @ 40°F
12 months @ 0°F

Applications

- Primary and Secondary Aircraft Structure Surfaces
- Honeycomb Sandwich Structure Surfaces
- Lightning Strike Applications
- UV Protection
- Painted Composite Surfaces

For Information about Park's materials:

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Technical Datasheet

| Properties | | |
|-------------------------------------|---------------|---------------|
| Glass Type | 1080 E-Glass | 106 E-Glass |
| Prepreg Areal Weight (psf / gsm) | 0.030/150 | 0.0145/67 |
| Resin Solids Content (%) | 63 - 71 | 63 - 71 |
| Resin Flow (260°F, 150 psi) (%) | 35 ± 10 | TBD |
| Gel time @ 250°F/120°C, minutes | 25 | TBD |
| Gel time @ 350°F/177°C, minutes | 0.8 | TBD |
| Volatiles (350°F/177°C, 60 min) (%) | <1.0 | <1.0 |
| Color | Natural, Gray | Natural, Gray |

UV Exposure Testing

- Subjected panels to 750 hours of UV exposure
 - o ASTM G 155, Cycle 9
 - o Xenon Lamp
 - o 180 W/m² (300-400 nm)
 - o 140°F
 - o 50% RH

Processing Guidelines

Autoclave/Oven Cure Cycle

- Cure cycle set up based on underlying epoxy prepreg material
- Aeroglide[®] surfacing film can be cured using autoclave or vacuum/oven cure cycles
- Aeroglide[®] surfacing film is compatible with both 250°F and 350°F epoxy cure cycles. For cure cycles below 250°F or above 365°F contact your local sales and technical service representative.

Note: These guidelines are provided to assist Park material users with general recommendations for successful processing. The recommendations are for general review purposes only and process adjustments may be required to achieve optimum results in your specific manufacturing environment.

All test data provided are typical values and not intended to be specification values. For review of critical specification tolerances, please contact a company representative directly.

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