

P-601 Polyester Prepregs

Park's P-601 is a flame retardant polyester resin system with good electrical and structural properties. Designed for woven-roving applications.

Key Features & Benefits

- Meets MIL-R-7575 Grade A, Class 3 requirements
- Non-styrenated / Low VOC
- Good electrical and structural properties
- Flame retardant
- Good alternative for wet lay-up processing

Product Forms

- Available on a variety of reinforcements
- Solution coated fabrics up to 60 inches wide
- Compatible with Autoclave, Vacuum Bag/Oven or Press Molding processes

Vacuum/Oven Cure Cycle

- Apply 24" Hg vacuum (minimum) for 1 hour before beginning heat cycle
- Heat at 2 – 3 °F/min from room temperature to 150°F
- Cure product at 150°F for 30 minutes
- Ramp heat at 2 – 3 °F/min to 250°F
- Cure product at 250°F for 90 minutes
- Cool to 150°F at no more than 8°F/min prior to releasing autoclave pressure

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.

Applications / Qualifications

- Radomes
- Large Structures

For Information about Park's materials:

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Prepreg Physical Properties

Reinforcement	18 oz Fiberglass Woven Roving
Fabric Area Weight (gsm)	610
Prepreg Resin Content (%)	34 - 39
Resin Flow (255°F, 15 psi) (%)	8 - 17
Volatiles (250°F, 8 min) (%)	3.0 (max)
Gel Time (sec)	70 - 120

Laminate Physical Properties

Reinforcement	18 oz Fiberglass Woven Roving
Dielectric Constant (Dk) @ 9.375 GHz	4.4
Loss Tangent (Df) @ 9.375 GHz	0.02
Hardness (Barcol)	64
Specific Gravity	
Tensile Strength, 0° (Ksi) 75°F Dry 250°F Dry ASTM-D-638 Type 1	38
Tensile Modulus, 0° (Msi) 75°F Dry 250°F Dry ASTM-D-638 Type 1	3.0
Compressive Strength (Ksi) 75°F Dry 250°F Dry ASTM-D-695	
Compressive Modulus (Msi) 75°F Dry 250°F Dry ASTM-D-695	3.0
Flexural Strength (Ksi) 75°F Dry 250°F Dry ASTM-D-790	44
Flexural Modulus (Msi) 75°F Dry 250°F Dry ASTM-D-790	1.6



Aerospace Composite Materials

Prepreg Storage Life

Out Life: 21 days @ 75°F

Shelf Life: 6 months @ 0°F

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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