



## **ME 3021 Gun Roving Designed for Spray-Up Operations**

### **I. PRODUCT DESCRIPTION**

ME 3021 is a Premium Gun Roving, designed for use in variety of spray up applications, marine, construction, consumer recreation, and transportation. ME 3021 Gun Roving is compatible with polyester and vinylester resin systems.

#### **Features** –

Fast Wet Through & Wet Out  
Excellent Runnability  
Outstanding Dispersion and Laydown  
Excellent Conformability  
Low Static  
Minimal Trapped Air

#### **Benefits**

Fast Wet Through & Wet Out- ME 3021 is designed to have fast bundle wetting, which minimizes the time needed to roll and achieve a totally consolidated matrix. Fast wetting provides an opportunity to increase production, resulting in more parts in a give time frame. The fast bundle wetting characteristics of ME3021 make it an ideal candidate for low styrene resin systems.

Excellent Runnability – ME 3021 is designed to run smoothly, with minimal interruptions. The TACK PACK Packaging, combined with air spliced ends, allows for full run out and uninterrupted package to package transfers.

Outstanding dispersion and laydown- ME 3021 is designed to spray onto a mold with minimal fluffing, clumping and virtually no haystacking. This good lay down characteristic makes it easier for gun operators to estimate laminate thickness while spraying a part. Better laydown reduces time for roll out as well.

Excellent Conformability- ME 3021 is designed with a strand construction which allows the glass to conform to sharp radii.

Low static - Low static ensures maximum gun operator comfort and safety in the workplace

Minimal Trapped Air – ME 3021 will allow air to release from the matrix easily, therefore reducing or eliminating defects and reducing scrap or reworks.

The final selection of any roving for molding processes is dependent upon the performance characteristics required of the finished product and the process techniques used. Each roving, therefore, should be evaluated for its own specific characteristics and cost/performance benefits, which dictate where and when the product is most applicable.

II. **AVAILABLE PRODUCT**

Identification	Yield (Nom. Yds./Lb.)	Linear Density (Nom. TEX)	% LOI (Nominal)
ME 3021	207	2400	1.15
ME 3021	165	3000	1.15

III. **VISUAL CHARACTERISTICS**

Roving doffs are square-edged, cylindrical packages which are firmly and evenly wound and have a constant traverse length. The packages are designed to provide a smooth run out, and their geometry is controlled to maintain the run out performance

IV. **PERFORMANCE CHARACTERISTICS**

- A. The strand shall feed from the package uniformly and smoothly throughout its entire length, with no stoppages while running at typical pulling speeds through clean, well maintained guide eyes.
- B. The material will not cause roll wraps on clean, properly adjusted cots and cutters
- C. The material will cut cleanly, disperse evenly, without match sticks, clumps or other glass induced defects on a clean, well adjusted, properly maintained spray-up unit.
- D. The material will provide consistent wet through and wet out
- E. The material will have low static; no bundles jumping on the mold, or no sparks generated during processing
- F. The material will not cause glass content variation in a laminate when used with properly adjusted and maintained spray up equipment

V. **PACKAGING, WRAPPING, PACKING, AND PALLETIZATION**

For packaging, wrapping, packing, and palletization, see the packaging information below.

Package Height, cm (in)	26	(10.25)
Package Weight, kg (lb)	23	(50)
Package Diameter, cm (in)	30	(12)
Packages per Layer	12	

**Creel-Pak®**

**Pallet Information**

Pallet Height, cm (in)	120	(47)
Pallet Length, cm (in)	95	(38)
Pallet Width, cm (in)	130	(51)
Number of layers	4	
Packages per Pallet	48	
Pallet Weight, kg (lb)	1088	(2400)

V. **PACKAGING, WRAPPING, PACKING, AND PALLETIZATION (Cont'd)**

**Other Information**

Creel Pak packaging is a shipping pallet consisting of two carton tubes. Each tube contains 24 packages, four doffs high and three doffs wide. Two sets of 12 roving packages in each cell are tied together to allow continuous running, minimizing down time required for package changes.

VI. **STORAGE CONDITIONS**

Unless otherwise specified, it is recommended to store glass-roving products in a cool dry area. Temperature should not exceed 35°C (95° F) and the relative humidity should be kept below 75 %. Glass roving products must remain in packaging material until just prior to its use. If these conditions are respected, glass-roving products should not undergo significant changes when stored for extended periods of time.