

PPG Industries, Inc.

Raw Material Specification

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Issued by: R. R. Eustace	

Prepared Glass Fiber (Textile and Plastic)

1.0 Scope:

This specification covers recycled glass fibers, generated in the manufacturing of continuous glass fibers, which are coated with any of several types of sizing. The fibers shall be cut to length and/or opened to allow efficient processing by various types of air lay equipment for fiber mat products and other industrial and commercial products.

2.0 Description:

2.1 General: These recycled glass fibers are generated from the processing of continuous glass fibers. Only continuous glass fibers coated with (1) plastic sizing or (2) textile sizing are acceptable. Fibers shall be free of foreign matter including metal and shall show no grease or soil.

2.2 Glass Composition: The glass shall be of the calcium borosilicate type. **(Type E)**

2.3 Fiber Diameter:

Plastic fibers: The average fiber (filament) shall not be greater than .00051" (13.00 microns). No individual fiber (filament) shall be less than .00020" (5.08 microns) nor exceed .00094" (24.00 microns).

Textile fibers: The average fiber (filament) shall not be greater than .00042" (10.67 microns). No individual fiber (filament) shall be less than .00020" (5.08 microns) nor exceed .00051" (13.00 microns).

2.4 Fiber Length: 1" to 4" (95% Confidence Level)

2.5 Sizing: The sizing shall not be in excess of 2% by weight.

2.6 Moisture Content: The moisture content of the product shall not be in excess of 3% by weight.

2.7 Bale Size Requirements: 54" L x 45"W x 29" H, Weight 1,000 LBS. (+/- 10%)

3.0 Performance Requirements:

Products produced using this material must perform under normal processing conditions, with no additional preparation or conditioning.

4.0 Packaging:

The material shall be suitably packed to comply with applicable carrier standards.

5.0 Marking:

Each container shall be clearly labeled with the following:

- Barcode
- Fiber Manufacturer's Name
- Product Code Number
- Date Code
- Weight