

P109 HIGH PERFORMANCE E-GLASS

MULTI-END ROVING FOR AERONAUTIC APPLICATIONS



DESCRIPTION

- **P109** multi-end rovings are made from E-Glass basic strands (or ends), assembled with no intentional twist.
- P109 Rovings are coated with a silane based sizing which makes it compatible with most commonly used thermoset resins, typically epoxy ones.
- P109 Rovings are intended for production of composites structures with exceptional static and fatigue strengths for aeronautic end-used.

BENEFITS

- High fatigue resistance
- Excellent mechanical and thermal properties
- Easy unwinding
- Very good wet-out and impregnation
- High strand integrity



APPLICATIONS

P109 Rovings can be used in a large variety of textile processes:

- Filament winding (dry and wet process)
- Unidirectional pre-pregging (dry and wet process)
- Pultrusion
- Weaving (woven or knitted fabrics)



P109 HIGH PERFORMANCE E-GLASS

MULTI-END ROVING FOR AERONAUTIC APPLICATIONS

TECHNICAL CHARACTERISTICS (NOMINAL VALUES)

Product	Filament ϕ (μm)	Linear weight of roving (Tex) ISO 1889	Loss on Ignition (%) ISO 1887	Moisture content (%) ISO 3344
P109 09E 756	9	756	0.48	< 0.20

PRODUCT AVAILABILITY (STANDARD REFERENCE)

Roving are supplied on a cardboard tube with int. ϕ 76.6 mm (ext. ϕ 82 mm), 270 mm long for external unwinding.

Manufacturing region	Product	Roving internal ϕ (mm)	Roving external ϕ (mm)	Height (mm)	Net weight (kg)
Europe	P109 09E 756	76.6	190	255	9.14

PACKAGING

Manufactured from a collection of continuous glass fibers which are gathered, without mechanical twist, into a single strand or roving. Each P109 roving is protected by a polythene bag and identified by an individual label. Customer specific packaging requirement may be available upon request. Packaging system is not designed for stacking.

Manufacturing region	Tex (g/km)	Doff ϕ (mm)	Pallet dimensions L x W x H (cm)	Layers/ pallet	Doff/layers	Total # of doffs	Pallet weight (kg)
Europe	756	190	120 x 100 x 104	3	20	60	731.2

LABELING

Each doff has a self-adhesive identification label, showing the product reference and the production date.

STORAGE

The P109 Rovings should be stored dry in their original packaging. Optimal conditions are temperatures between 15°C and 35°C and humidity between 35% and 65%. If the product is stored at low temperature (below 15°C), it is advisable to condition it in the workshop for at least 24 hours before use, to prevent condensation.

Americas

Owens Corning
Composite Materials, LLC.
One Owens Corning Parkway
Toledo, Ohio 43659
1.800.get.pink™

Europe

European Owens Corning
Fiberglas Sprl.
166 Chaussée de la Hulpe
B-1170 Brussels
Belgium
+32 2 674 8211

Asia Pacific

Owens Corning Shanghai Regional Headquarters
Unit 01, 02,05, 39/F,
Pudong Kerry Parkside,
1155 Fang Dian Road, Pudong,
Shanghai, 201204, China
+86-21-6101 9666

This information and data contained herein is offered solely as a guide in the selection of reinforcement. The information contained in this publication is based on actual laboratory data and field test experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law, safety code or insurance regulation.

Owens Corning reserves the right to modify this document without prior notice.

© 2015 Owens Corning. All Rights Reserved.

Pub number: 10019592. MultiEndRov_P109E_product sheet_ww_02-2015_Rev0_EN. February 2015

MultiEndRovings@owenscorning.com
composites.owenscorning.com