



TWINTEX® R PP

PP Glass Roving

PRODUCT DESCRIPTION

TWINTEX® R PP is a roving made of commingled E-glass and polypropylene filaments. TWINTEX® R PP is suitable for filament winding, pultrusion, reinforcement of extruded profiles and weaving.

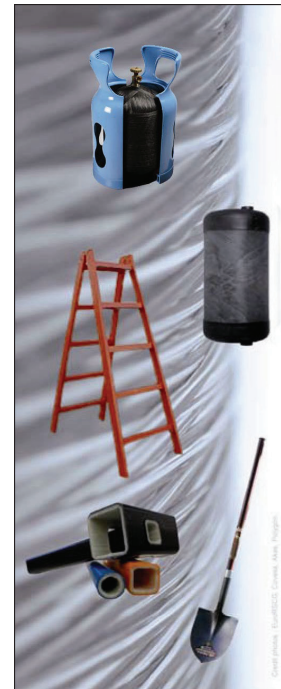
Consolidation is done by heating the roving above melting temperature of PP matrix (180°C-230°C / 360°F-450°F) and applying a pressure before cooling step under pressure.

PRODUCT REFERENCE

- Example: TWINTEX® R PP 60 1870 B
- R: roving
 - PP: polypropylene matrix
 - 60: glass content in weight (%)
 - 1870: Yarns yield (tex)
 - B: black color, heat and UV stabilizations
 - N: natural color, heat and UV stabilizations

PRODUCT APPLICATION

TWINTEX® R PP is mainly used for the following applications:
Profiles for different market applications - Tanks & Vessels.



FEATURES AND PRODUCT BENEFITS

- Ready to Use Product – The Thermoplastic Resin is inside
- High Mechanical Properties
- Efficient Processing Conditions
- Recyclability
- No VOC Emission and Ease of Storage conditions

COMPOSITE MECHANICAL CHARACTERISTICS (AFTER MOLDING)

				UNIDIRECTIONAL ROVING PP 60	UNIDIRECTIONAL ROVING PP 53
Tensile	Strength Modulus	ISO 527	MPa (psi x 10 ³) GPa (psi x 10 ⁶)	760 (110) 29.5 (4.2)	690 (100) 25.0 (3.6)
Flexural	Strength Modulus	ISO 14125	MPa (psi x 10 ³) GPa (psi x 10 ⁶)	740 (107) 25.5 (3.7)	610 (88) 22.0 (3.2)

- Mechanical property data was developed in accordance with standard ISO specifications
- Relative values shown are accurate to the best of our knowledge, but should not be used for design purposes since absolute values can be influenced by processing conditions
- More specific data are available upon request

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PRODUCT AVAILABILITY

PRODUCT CHARACTERISTICS				
Code	Internal Diameter (mm)	External Diameter (mm)	Height (mm)	Nominal Weight (Kg)
TWINTEX® R PP 82 1398 N	165	312	262	15.70
TWINTEX® R PP 60 1870 N or B	165	310	262	13.00
TWINTEX® R PP 53 2120 N or B*	165	310	262	*

* This product is not commercially available for the moment

PACKAGING

The rovings are shrink wrapped in a PE film and palletized with a cardboard and stretched film wrapping.

- Number of rovings per pallet: 44
- Average weight of a pallet: 550 kg

STORAGE

TWINTEX® R PP must be stored in its original packaging, away from humidity and at moderate temperature.

The best conditions are:

- Temperatures between 15°C and 35°C. (60°F and 95°F)
- Humidity between 35% and 65%.

If the product is stored at low temperature (below 15°C/60°F), it is advisable to condition it in the workshop, for at least 24 hours before use, to prevent condensation. Pallets can be stacked one above the other on two levels.

OCV CHAMBÉRY INTERNATIONAL
767 QUAI DES ALLOBROGES
73009 CHAMBÉRY CEDEX
FRANCE

infotwintex@owenscorning.com



OCV™ Reinforcements

OWENS CORNING
COMPOSITE MATERIALS, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO 43659
1.800.GET.PINK™
www.owenscorning.com
www.ocvreinforcements.com

EUROPEAN OWENS CORNING
FIBERGLAS, SPRL.
166, CHAUSSÉE DE LA HULPE
B-1170 BRUSSELS
BELGIUM
+32.2.674.82.11

OWENS CORNING - OCV ASIA PACIFIC
SHANGHAI REGIONAL HEADQUARTERS
2F OLIVE LVO. MANSION
620 HUA SHAN ROAD
SHANGHAI 200040
CHINA
+86.21.62489922

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