



TWINTEX® R PP

PP Glass Roving

PRODUCT DESCRIPTION

TWINTEX® R PP is a roving made of commingled high performance reinforcement 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 BLACK 1870 (HPR)

R: roving

PP: polypropylene matrix

60: glass content in weight (%)

BLACK: black color, heat and UV stabilizations

NATUR: natural color, heat and UV stabilizations

1870: Yarns yield (tex)

(HPR) High Performance Reinforcement glass

PRODUCT APPLICATION

TWINTEX® R PP is mainly used for the following applications:

Profiles - Tanks & Vessels – Technical fabrics...

FEATURES AND PRODUCT BENEFITS

- | | |
|--|------------------------------|
| • Ready to Use Product – The Thermoplastic Resin is inside | • Ease of Storage conditions |
| • Fast Processing Cycle Time | • High Mechanical Properties |
| • No solvent Emission | • Recyclability |

COMPOSITE MECHANICAL PROPERTIES (AFTER MOLDING)

				UNIDIRECTIONAL ROVING PP 60
Tensile	Strength Modulus Elongation	ISO 527	MPa (psi x 10 ³) GPa (psi x 10 ⁶) %	760 (110) 32.2 (4.67) 2.4
Flexural	Strength Modulus	ISO 14125	MPa (psi x 10 ³) GPa (psi x 10 ⁶)	560 (81) 28.9 (4.19)

- 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 NATUR 1398 (HPR)	165	312	262	15,7
TWINTEX [®] R PP 60 NATUR/BLACK 1870 (HPR)	165	310	262	13,0

PACKAGING

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

- Number of rovings per pallet: 48
- Average weight of a pallet: 630 Kg

STORAGE

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

The best conditions are:

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

If the product is stored at a 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.

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