



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
- Efficient Processing Conditions
- No solvent Emission
- Ease of Storage conditions
- High Mechanical Properties
- Recyclability

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.

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