



# TWINTEX® R PET

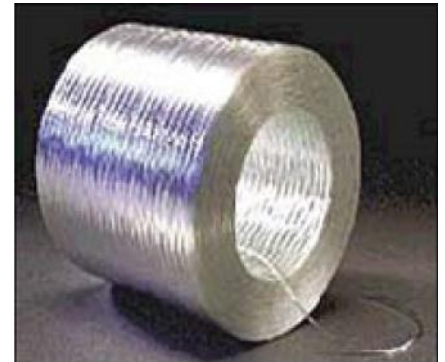
## Thermoplastic polyester Glass Roving

### PRODUCT DESCRIPTION

TWINTEX® R PET is a roving made of co-mingled E-glass 24µm and thermoplastic polyester filaments.

### PRODUCT REFERENCE

Example : TWINTEX® R PET 70 1345 N  
R : roving  
PET : polyester matrix  
70 : glass content in weight (%)  
1345 : Yarns yield (tex)  
N : natural color



### PRODUCT APPLICATION

TWINTEX® R PET product is compatible with PVC for reinforcement of extrusion manufacturing process. It's also suitable for filament winding and pultrusion. Consolidation is done by heating the roving (190°C-250°C / 370°F-480°F) and applying a pressure before cooling step under pressure.

### FEATURES AND PRODUCT BENEFITS

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

### COMPOSITE MECHANICAL CHARACTERISTICS

#### Flexural test [ISO14125]

	-40°C	23°C	50°C	60°C	65°C	70°C	75°C
Modulus [GPa]	> ~41.0				40.1	38.6	29.7
Strength [MPa]	1060	900	740	680	630	460	190

#### Tensile test [ISO527-5]

	-40°C	23°C	70°C
	42.3	39.3	38.4
	950	750	550

Poisson ratio [ISO527-5] at -40°C and 23°C

Coefficient of linear thermal expansion (CTE) [ISO11359, ASTM-D696]

Thermal conductivity λ [ISO8302, ASTM-E1461]

Density [ISO2811-2]

0.32

8 x 10E-6 m/(m.K)

0.9 W/(m.K)

1.95 g/cm<sup>3</sup>

# TWINTEX<sup>®</sup> R PET

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### PRODUCT AVAILABILITY

PRODUCT CHARACTERISTICS				
Code	Internal Diameter (mm)	External Diameter (mm)	Height (mm)	Nominal Weight (kg)
TWINTEX <sup>®</sup> RPET 70% 1345tex NATURAL	165	275	260	10

### PACKAGING

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

- Number of rovings per pallet: 70
- Average weight of a pallet: 700 kg

### STORAGE

TWINTEX<sup>®</sup> R PET products 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 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.

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