



# TWINTEX® T PP

## PP Glass Fabrics

### PRODUCT DESCRIPTION

TWINTEX® T PP is a fabric made of TWINTEX® R PP 60 1870 N or B roving (commingled E-glass and polypropylene filaments). Consolidation is done by heating above melting temperature of PP matrix (180°C-230°C / 360°F-450°F) and applying a low pressure (1-30 bars), before cooling step under pressure.

According to the size of series, the product processings are:

- Vacuum molding
- Diaphragm
- Calendering

### PRODUCT REFERENCE

Example: TWINTEX® T PP 60 745 AF 152

T: fabric

PP: polypropylene matrix

60: glass content by weight (%)

745: nominal weight (g/m<sup>2</sup>)

AF: natural color, heat and UV stabilizations

BF: black color, heat and UV stabilizations

152: width (cm)



### PRODUCT APPLICATION

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

Automotive - Marine - Transportation - Sports & leisure - Building & Construction.

### FEATURES AND PRODUCT BENEFITS

- Ready to Use Product – The Thermoplastic Resin is inside
- Ease of Storage conditions
- Fast Processing Cycle Time and Low Pressure Molding
- High Mechanical Properties with Impact Resistance and Weight Saving
- No solvent Emission
- Recyclability

### COMPOSITE MECHANICAL CHARACTERISTICS (AFTER MOLDING)

				PP 60 1/1	PP 60 4/1
Tensile	Strength Modulus	ISO 527	MPa (psi x 10 <sup>3</sup> ) GPa (psi x 10 <sup>6</sup> )	300 (43.5) 14 (2.0)	400 / 130 (58.0 / 18.8) 20 / 6 (2.9 / 0.9)
Flexural	Strength Modulus	ISO 14125	MPa (psi x 10 <sup>3</sup> ) GPa (psi x 10 <sup>6</sup> )	280 (40.6) 13 (1.9)	380 / 130 (55.1 / 18.8) 18 / 6 (2.6 / 0.9)
Charpy impact unnotched		ISO 179	kJ/m <sup>2</sup>	160	200 / 90
Izod impact notched		ISO 180	kJ/m <sup>2</sup>	140	205 / 85
Glass content		In weight In volume	% %	60 35	60 35

- 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

# TWINTEX® T PP

## PP Glass Fabrics

### PRODUCT AVAILABILITY

PRODUCT AVAILABILITY				
Code	Color	Structure	Pattern*	Standard width (cm)
Twintex® T PP 60 745	natural or black	balanced	twill 2/2	130 and 152
Twintex® T PP 60 1485	natural or black	balanced	twill 2/2	152
Twintex® T PP 60 935	black	4-1	plain	101 and 152
Twintex® T PP 60 980	natural	balanced	twill	255

\* Other Twintex® fabrics patterns are available

### PACKAGING

Each roll of TWINTEX® PP glass fabric is wrapped in a polyethylene bag, packed in cardboard box and palletized.

### STORAGE

TWINTEX® T 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.

**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

This information and data contained herein is offered solely as a guide in the selection of a 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.

Pub. No. 10010683-D. Owens Corning reserves the right to modify this document without prior notice. ©2010 Owens Corning

Twintex\_TPP\_ww\_06-2008\_Rev5