



TWINTEX® P PP

PP Glass Plates

PRODUCT DESCRIPTION

TWINTEX® P PP is a consolidated plate based on TWINTEX® fabrics. TWINTEX® P PP is processed by in-mold pressure after heating above melting temperature of PP matrix: 180°C–230°C (360°F- 450°F).

The molding can be realized by:

- Diaphragm
- Thermo compression
- Sandwich thermo compression
- Co-molding with compound TP - local reinforcement

PRODUCT REFERENCE

Example: TWINTEX® P PP 60 1485 1/1 BF 1000x1000

P: plate

PP: polypropylene matrix

60: glass content by weight (%)

1485: nominal weight (g/m²)

1/1: balanced product

AF: natural color, heat and UV stabilizations

BF: black color, heat and UV stabilizations

1000x1000: dimensions (mm)

Other possibilities:

- TWINTEX® plates can be associated to PP film or polyester non-woven veil, on one or both faces.



PRODUCT APPLICATION

TWINTEX® P PP is mainly used for the following applications: Automotive – 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
- 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 ³) GPa (psi x 10 ⁶)	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 ³) GPa (psi x 10 ⁶)	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 ²	160	200 / 90
Izod impact notched		ISO 180	kJ/m ²	140	205 / 85
Glass content		In weight In volume	% %	60 35	60 35

TWINTEX® P PP

PP Glass Plates

COMPOSITE MECHANICAL CHARACTERISTICS (CONTINUED)

- Mechanical property data 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.

PRODUCT AVAILABILITY

TWINTEX® plates are available:

- as coils palletized
- as cut-to-size plates palletized

PRODUCT AVAILABILITY					
Reference	Glass content (% wt)	Color	Nominal Weight (g/m ²)	Structure	Thickness after consolidation (mm)
P PP 60 745 1/1	60	AF/BF	745	Balanced	0.5
P PP 60 935 4/1	60	BF	935	4/1	0.7
P PP 60 1485 1/1	60	AF/BF	1485	Balanced	1.0
P PP 60 1870 4/1	60	BF	1870	4/1	1.4
P PP 60 2970 1/1	60	AF/BF	2970	Balanced	2.0

STORAGE

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

The best conditions are:

- Temperatures between 15°C to 35°C (60°F to 95°F)
- Humidity between 35% to 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



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. 10010681-C. Owens Corning reserves the right to modify this document without prior notice. ©2010 Owens Corning

Twintex_PPP_ww_09-2008_Rev4