



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
- High Mechanical Properties with Impact Resistance and Weight Saving
- Fast Processing Cycle Time
- Recyclability
- No VOC Emission and Ease of Storage conditions

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	60
				35	35

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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	Grammage (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.

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