Vetrotex




HYBRID GLASS/PP AND GLASS/PA YARNS

Our lightweight reinforcement solutions for thermoplastics

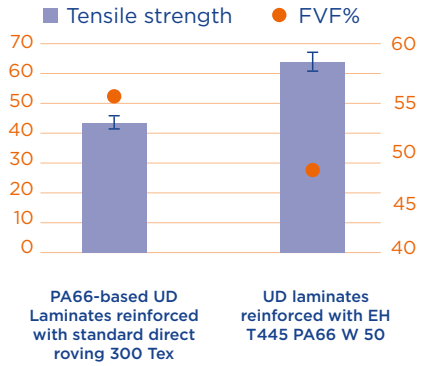
Product description

Low Tex hybrid E-glass/thermoplastic yarns offered in count range from 95 to 450 Tex with a glass fibre volume fraction of 50%. These new hybrid yarns are produced from the commingling of polypropylene or polyamide filaments and glass filaments sized with a starch free system exhibiting excellent textile properties.

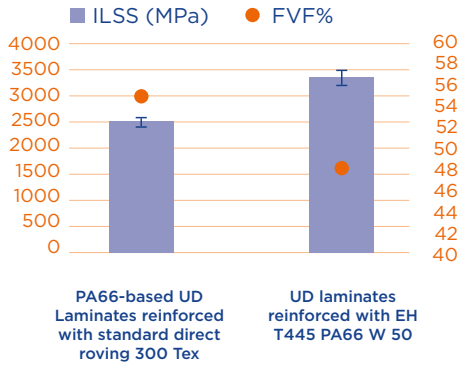
Main advantages

- Excellent textile properties
- Enable production of lightweight & thin prepreg fabrics & laminates
- Superior dry prepreg drapability for complex structure
- Quick & easy wet out of the thermoplastic resin during heating step
- Core impregnation of the TP resin within the glass yarn core
- Reduced cycle process steps & time for laminate production
- Improved fibre/matrix adhesion leading to higher laminate performances

Uniaxial tensile strength in 0 °C of UD laminates (MPa)



Interlaminar shearing strength of UD laminates (MPa)



Yarn cross-section illustration

- Glass reinforcement filament
- Thermoplastic matrix filament

Packaging Information

80 bobbins per pallet

Nominal weight per pallet
EH T95 or 105: 672 kg (1481.5 lbs)
EH T430 or 445: 536 kg (1181.7 lbs)

Nominal bobbin weight
EH T95 or 105: 8.4 kg (18.52 lbs))
EH T430 or 445: 6.7 kg (14.77 lbs)

Nominal bobbin dimension
Inside 80 mm (3.15")
Outside 245 mm (9.65")
Height 280 mm (11.02")

SAINT-GOBAIN

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Product Information

Reference	Unit	EH T95 PP W or B 50*	EH T430 PP W or B 50	EH T105 PA66 W 50	EH T445 PA66 W 50
Fibre volume fraction	Vol.%	50	50	50	50
Glass type		E	E	E	E
Final Count	Tex (g/km) Yds/lb	95 52,2	430 11,5	105 47,2	445 11,1
Glass Fibre diameter	µm	9	13	9	13
Thermoplastic resin		PP	PP	PA66	PA66
Resin color		White or Black	White or Black	White	White

*E = Type of Glass / H = Hybrid / T = Texturized / 95 = Linear density (Tex) / PP = Polypropylene / W = White or B = Black color / 50 = Glass volume content %

Recommended storage & processing conditions

The material should be stored in its original packaging in dry conditions away from direct sunbeam. Storage temperatures of between 10 and 35 °C (50 and 95 °F) and a relative humidity of between 40 and 70 % are recommended. Though there are no known storage limitations under proper conditions, we recommend to use the material within 6 months after delivery date, or within 24 months after date of manufacture. Retesting is advised after 2 years from initial manufacture date to insure optimum performance. Before processing, the material should be conditioned by exposing it unpacked to the processing climate for at least 24 hours.

SAINT-GOBAIN

YOUR SALES CONTACT

AMERICAS
Saint-Gobain Vetrotex America
168 Willie Paulk Parkway
Dublin, GA 31021
E-mail: vetrotex@saint-gobain.com

EUROPE
Saint-Gobain Vetrotex Sales Office Europe
Sokolovská 106
57001 Litomyšl, Czech Republic
Phone: +420 461 651 624
Fax: +420 461 651 596
E-mail: vetrotex@saint-gobain.com

ASIA/AUSTRALIA
Saint-Gobain ADFORS
Tour Saint-Gobain
12 place de l'Iris
92096 La Défense France
Phone: +33 1 4762 3667
Fax: +33 1 4762 3766
E-mail:vetrotex@saint-gobain.com

Please visit our website
for further information:
www.vetrotextextiles.com

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