

CONTINUOUS FIBRE REINFORCED THERMOPLASTIC COMPOSITES

Continuous Fiber Endless Possibilities

Product Catalogue



Unidirectional tapes, crossply laminates and processing solutions for lightweight composite structures.

PP / HDPE / PA6

Part of Özer

01 / PRODUCT PORTFOLIO

Reinforcement in the right format

Select the tape architecture for the component and downstream process.



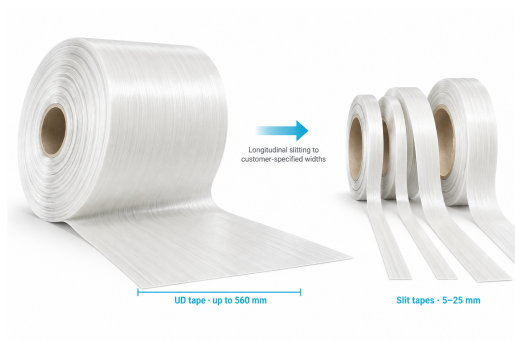
Single layer

Continuous unidirectional reinforcement, with fibres aligned along the tape.



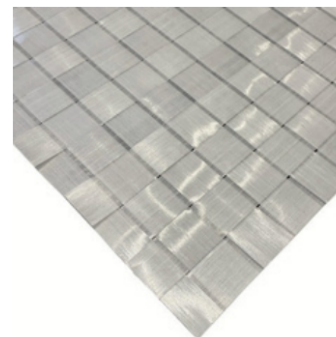
Crossply

Customer-specific fibre orientations. Laminates up to 3.2 m wide and 12 layers.



Slit tapes

UD tapes slit to 5-25 mm widths for downstream composite processing.



Woven tape fabrics

Tape fabrics for composite processing and component development.

Patented HPFIT® Technology

High Pressure Fibre Impregnation Technology combines fibre spreading with thermoplastic resin impregnation. Resin-rich surfaces support fusion between compatible layers during consolidation and lamination.

02 / TECHNICAL PROPERTIES

Product range at a glance

Typical values from the technical table on udmaxtapes.com. These are product-grade figures, not design allowables.

Grade	Matrix	Glass wt. %	Thick. mm	Density kg/dm ³	Areal wt. g/m ²	Tensile modulus 0° GPa	Tensile strength 0° MPa
GPP 55-80	PP	80	0.25	1.88	475	43	1090
GPP 45-70	PP	70	0.25	1.67	417	37	1010
GPP 40-65 AO	PP	65	0.28	1.57	439	29	970
GPP 45-70 FR	PP	70	0.25	1.66	415	36	675
GHDPE 46-70 XP001	HDPE	70	0.25	1.67	430	31	1050
GHDPE 40-65 XP011	HDPE	65	0.27	1.61	434	31	850
GPA 40-65	PA6	65	0.27	1.72	465	33	870

Data basis: GPP 55-80 rev. 23092901; GPA 40-65 rev. 25031701; other listed grades rev. 22092301. Some grades are preliminary. Consult the corresponding data sheet for test methods, conditions and revision details.

CAPABILITY OVERVIEW

560 mm

Maximum tape width

80%

Maximum fibre content

6,000+ t

Annual production capacity

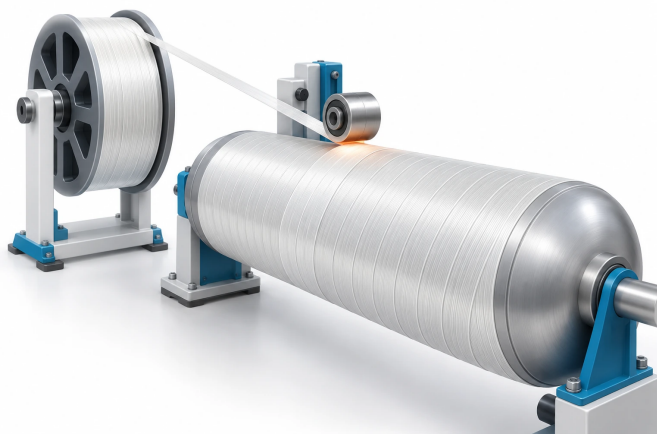
Choose the grade, then validate the laminate

The table reports tensile properties in the 0° fibre direction. Crossply lay-up, consolidation quality, joints and service conditions affect finished component performance. Grade-specific data sheets and MSDS documents are linked from the website.

03 / PROCESSING SOLUTIONS

From tape to component

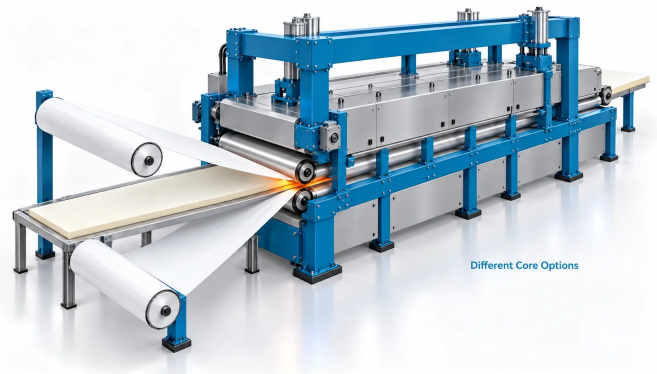
Controlled heat, pressure and cooling turn thermoplastic reinforcement into composite structures.



Tape Winding

Slit tapes are wrapped around a rotating liner or form. Heat and roller pressure fuse and consolidate compatible layers at the selected winding angles.

Development areas: composite pipes and pressure vessels.



Panel Solutions with Different Cores

UD tape or crossply skins are laminated around a core using a double belt press. Thermal fusion requires compatible surfaces and a qualified process.

Core options shown on the website: honeycomb, foam, WPC and MDF. Bonding route depends on the selected skin/core combination.

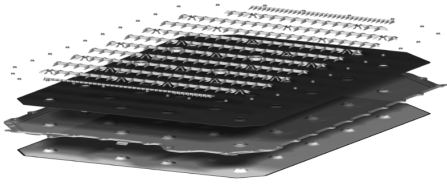
Material combinations

UD Max Tapes can be integrated into honeycomb panels and structures with aluminium, steel, antislip surfaces, DLFT, LWRT or WPC. Interface compatibility and application testing define the final construction.

04 / APPLICATIONS AND CONTACT

Develop lighter structures

Application concepts shown on the UD Max Tapes website. Material and component qualification is specific to each project.



Automotive

Composite panels and battery protection concepts.



Composite piping

Thermoplastic tape reinforcement around a compatible liner.



Trailer & transport

Lightweight panels for body and interior structures.



Sandwich panels

Composite skins combined with lightweight cores.

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