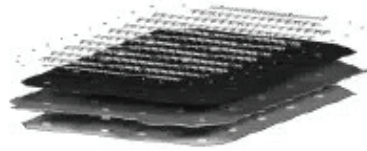




Continuous
Fiber
Reinforced
Thermoplastic
Composites

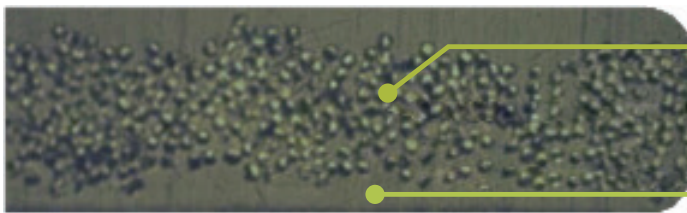


**Audi Q8 BEV Battery Protection Plate in Composite Design
with UDMAX® Tapes**



THERMOPLASTIC UD TAPES

High quality continuous fiber reinforced thermoplastic composites tapes with glass, or other fibres.
The essence of UDMAX® Tape performance is, optimal fibre spreading, while keeping a resin-rich surface layer at high fiber contents.



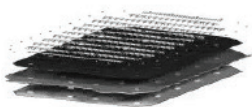
**Optimal
Fiber Spreading**

**Resin Rich
Surface
Layer**

Cross Section of **UDMAX®**
tape- HPFIT patented

RESIN TYPE

- PP
- HDPE
- PA6



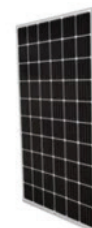
Composite
Battery Pack



Composite
Bumper Beam



Trailer
Side Wall



Solar Panel



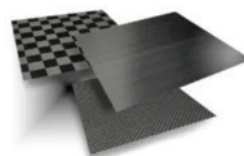
Composite
Panel



Automotive



Suit Case



Cross Laminates



Pressure Vessel



Piping

25% of CO₂ EMISSIONS FROM ROAD TRANSPORT IN THE EU.

UDMAX® Tape advantages in COMMERCIAL VEHICLES

LIGHTWEIGHT

- Increased payload
- Optimization of fuel usage
- Lower CO₂ footprint

STRENGTH

- High impact strength and stiffness
- Durable
- Corrosion resistance
- Quick and easy to repair
- Excellent toughness and fatigue resistance

Production Capability

- Capacity: > 6kT/year
- Tape width available up till 560 mm
- Roll length available up till 5,000* running meter
- Maximum %80 fiber content
- Customer based thickness

Various Product Forms

- Slitting capacity from 5 mm – 560 mm
- Pancake and crosswind capability
- Cross-pplies
- Woven Fabrics
- HEXAPAN®Honeycomb Composite Sheet Lamination

UDMAX®

RESIN TYPE

- PP
- HDPE
- PA6

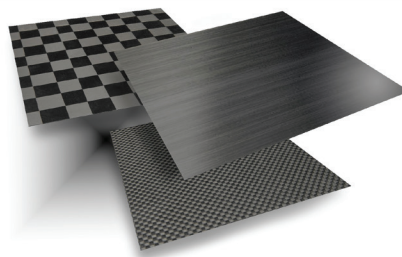
FILAMENT TYPE

- GLASSFIBER



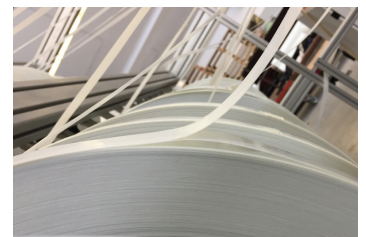
CROSSPLY

- 0°/90°/45° oriented Crossply lay-up,
- Continuous lamination up to 16 layer
- Steel/Aluminium composite solutions (such as skin layer of sandwich panels)

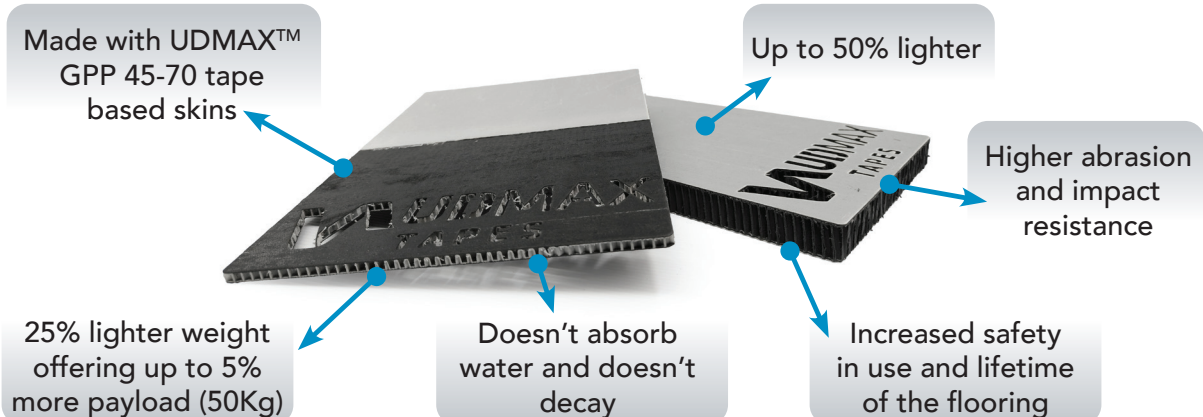


SLITTING

- Starting at 5 mm width to 560 mm
- Using a high speed winding equipment,
- Parallel or across wound manner.
- Up to 5,000 running meters .



SANDWICH PANEL SOLUTIONS WITH



HPFIT® technology

- Excellent fiber impregnation
- High fiber content up to % 80
- Good fiber distribution
- Twist-free fiber orientation



**33% COST
SAVING**

**OVER
TRADITIONAL
STEEL TANK**

ECO Solutions

- Lightweight Honeycomb and Crossplied solutions
- Combinations possible with various core, film and other materials
- Corrosion free
- High durability

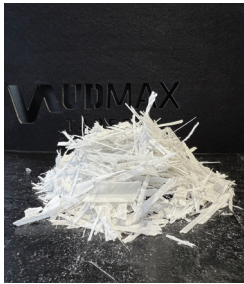
- In Europe, buildings account for 40% of Energy consumption and 36% CO₂ emissions
- Renovation is key to address energy efficiency
- Insulation, energy usage, storage and distribution are priority areas in EU's renovation project
- Faster building time and worker's safety are key requirements

UDMAX® MOSAIC
TAPES



**FORMABLE
REUSABLE**

100% RECYCLED



Scredding-
Mechanical
Recycling



Spreading-
Pre
consolidation



Consolidated
up to %60 GF
content

ZERO WASTE SOLUTION FROM YOUR OWN UDMAX WASTE

UDMAX® offers a broad portfolio from its own waste for formable panles, rigid injection molded compound materials, and engineering performance parts with ECO solutions.

Thickness range : 0.7 mm to 2.0 mm
Width : up to 2000 mm

Flexural Modulus : 11.000 N/mm²-L
Flexural Strenght : 180 N/mm²-L

Density : 1.41 g/cm³
Glass Content : up to %60 percent

Tensile Modulus : 14.600 N/mm²-L
Tensile Strenght : 110 N/mm²-L

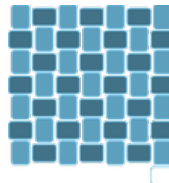
TECHNICAL PROPERTIES

Matrix Material	PP	PP	PP	HDPE	HDPE	PA6
Glass content	%65	%70	%80	%70	%65	%60
Thickness	0.28 mm	0.25 mm	0.25 mm	0.25 mm	0.27 mm	0.25 mm
Density	1,57 kg/dm ³	1,67 kg/dm ³	1,87 kg/dm ³	1,69 kg/dm ³	1,61 kg/dm ³	1,72 kg/dm ³
Areal Weight Tensile	439g/m ²	415g/m ²	467g/m ²	423g/m ²	434g/m ²	430g/m ²
Modulus 0o	32 GPa	36 GPa	43 GPa	31 GPa	29 GPa	33GPa
Tensile Strenght 0o	850 MPa	970 MPa	1090 MPa	970 MPa	850 MPa	870 MPa

PROCESSING TECHNOLOGIES



Lamination



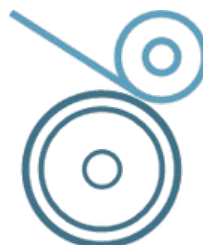
Weaving



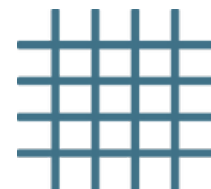
Crossply



Compressing/Hybrid Moulding



Tape Winding



Grid Manufacturing/
2D Cutting

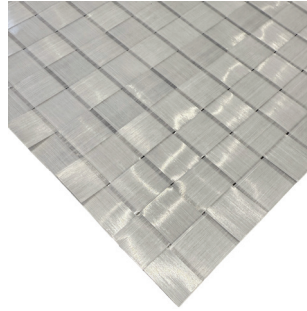


PRODUCT PORTFOLIO

UDMAX[®] SINGLE LAYER



UDMAX[®] WOVEN



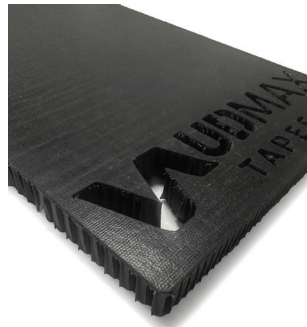
UDMAX[®] SLITTING



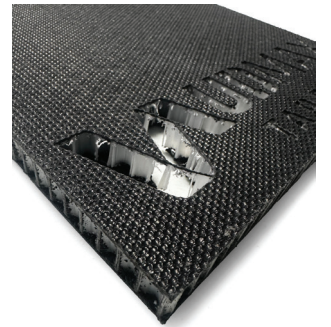
UDMAX[®] CROSSPLY



UDMAX[®] HEXAPAN



UDMAX[®] ANTISLIP



UDMAX[®] ALUMINIUM



UDMAX[®] STEEL



UDMAX[®] MOSAIC



UDMAX[®] DLFT

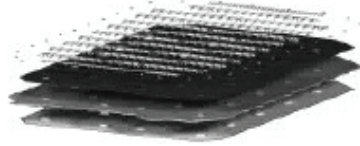


UDMAX[®] LWRT



UDMAX[®] WPC





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