



3D|CORE™
all around composites

3D|CORE™ PRODUCTS



GERMAN
**INNO
VATION**
AWARD '19
WINNER



GERMAN
DESIGN
AWARD
GOLD
2021



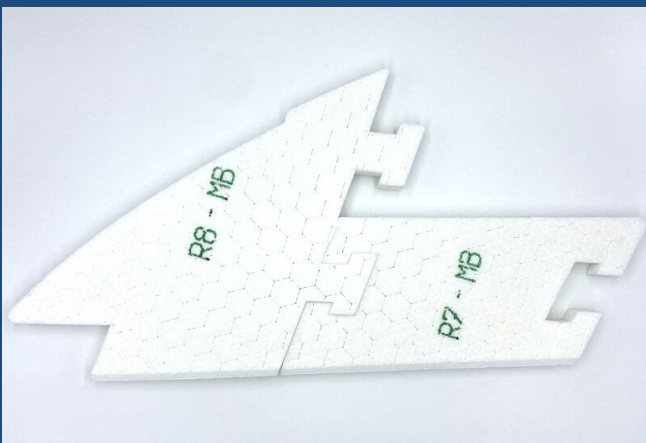
3D|CORE™
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3D|CORE™ PRODUCTS

3D|CORE™ is the first choice for engineers and designers looking for innovative composite solutions to optimize their products. We offer a specially selected range of structure-reinforcing 3D|CORE™ foam cores for your production of sandwich components in various delivery forms. That's how we find the ideal solution for every customer!

Your benefits:

- Lightweight components with high strength
- Increased efficiency
- 3D-shapable materials
- An optimal resin flow
- Tailormade products and solutions fitting your requirements



*For more information on the 3D|CORE™ structure, please see our "3D|CORE™ Technology" brochure

3DICORE™ FOAM TYPES

3DICORE™ SHEETS
3DICORE™ ROLLS
3DICORE™ TAPES
3DICORE™ ASSEMBLY KITS

PROPERTIES

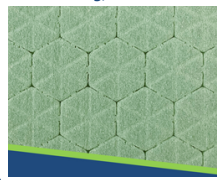
MARINE
RAIL
TRANSPORT
WINDING
AUTOMOTIVE
SPORTS & LEISURE
DESIGN & ARCHITECTURE

APPLICATION AREAS

HAND LAY-UP
VACUUM INFUSION
PREPREG
RTM
VARTM
SMC
AUTOCLAVE
WET PRESSING

3DICORE™ PET GR THE RECYCLED

75 - 200 kg/m³



✓	✓	✓	✓	<ul style="list-style-type: none"> Made from post-consumer plastics Closed-cell, thermoplastic and recyclable high-performance rigid foam Excellent fatigue strength Long-term thermal stability up to 100°C Processing temperature up to 150°C High chemical resistance Homogeneous connection of all components Excellent surface adhesion Highly consistent material properties Good thermal insulation Processing with all known resin systems 	✓	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> Rail and transport: roofs, floor panels, interior, front masks, side walls Ship and boat building: hull, deck, mast, superstructure, interior Industrial components: covers, safety doors, sleeves Architecture and construction: roofs, walls, panels Aerospace: interiors, kitchen furniture, radomes Automotive: underbody protection, battery box, trunk, chassis, side elements, bonnet Leisure: skateboard, canoe, surfboard Winding: sleeves, tubes, tanks, masts 	✓	✓	✓	✓	✓	✓	✓
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3DICORE™ PET THE ALLROUNDER

150 kg/m³



✓			✓	<ul style="list-style-type: none"> Closed-cell, thermoplastic and recyclable high-performance rigid foam Excellent fatigue strength Long-term thermal stability up to 100°C Processing temperature up to 150°C High chemical resistance Homogeneous connection of all components Excellent surface adhesion Highly consistent material properties Good thermal insulation DNV GL certified Processing with all known resin systems 	✓	✓	✓		✓	✓	<ul style="list-style-type: none"> Rail and transport: roofs, floor panels, interior, front masks, side walls Ship and boat building: hull, deck, mast, superstructure, interior Industrial components: covers, safety doors Architecture and construction: roofs, walls, panels Aerospace: interiors, kitchen furniture Automotive: underbody protection, battery box, trunk, chassis, side elements, bonnet Leisure: skateboard, canoe, surfboard 	✓	✓	✓	✓	✓	✓	✓
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3DICORE™ PET FR THE FIRE RETARDANT

95 kg/m³



✓	✓		✓	<ul style="list-style-type: none"> Very good fire protection properties (certified according to DIN 5510; NF F16-101; FAR 25.853; EN 13823; EN 45545-2; IMO Part 5) Closed-cell, thermoplastic and recyclable high-performance rigid foam Excellent fatigue strength Long-term thermal stability up to 100°C Processing temperature up to 150°C High chemical resistance Homogeneous connection of all components Excellent surface adhesion Highly consistent material properties Good thermal insulation Processing with all known resin systems 	✓	✓			✓	<ul style="list-style-type: none"> Rail and road vehicles: roofs, floor panels, interior, front masks, side panels Ship and boat building: hull, deck, mast, superstructure, interior Industrial components: covers, safety doors Architecture and construction: roofs, walls, panels Aviation: interiors, kitchen furniture, radomes 	✓	✓	✓	✓	✓	✓	✓	✓
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3DICORE™ XPS THE LIGHTWEIGHT

45 kg/m³



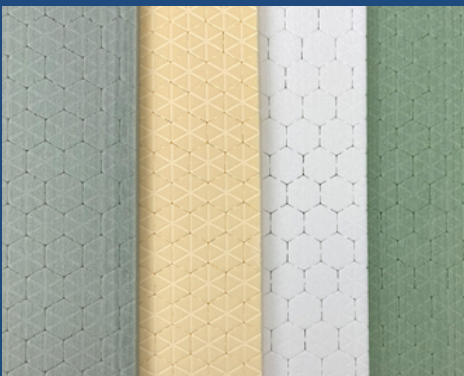
✓			✓	<ul style="list-style-type: none"> Closed-cell, thermoplastic and recyclable high-performance rigid foam Very light foam core Long-term thermal stability up to 70°C Processing temperature up to 40°C High chemical resistance Homogeneous connection of all components Excellent surface adhesion Highly consistent material properties Good thermal insulation Processing with epoxy and PU resin systems 	✓		✓		✓	✓	<ul style="list-style-type: none"> Ship and boat building: hull, deck, interior design Design: Furniture Architecture: roofs, walls, panels Motorsport and automotive: spoilers, bonnets, boot lids, side panels Leisure: canoe, surfboard, skateboard 	✓	✓				✓	
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3D|CORE™ PRODUCTS

3D|CORE™ SHEETS



THE IDEAL CORE FOR LIGHTWEIGHT, DURABLE AND COMPRESSION-RESISTANT SANDWICH CONSTRUCTIONS

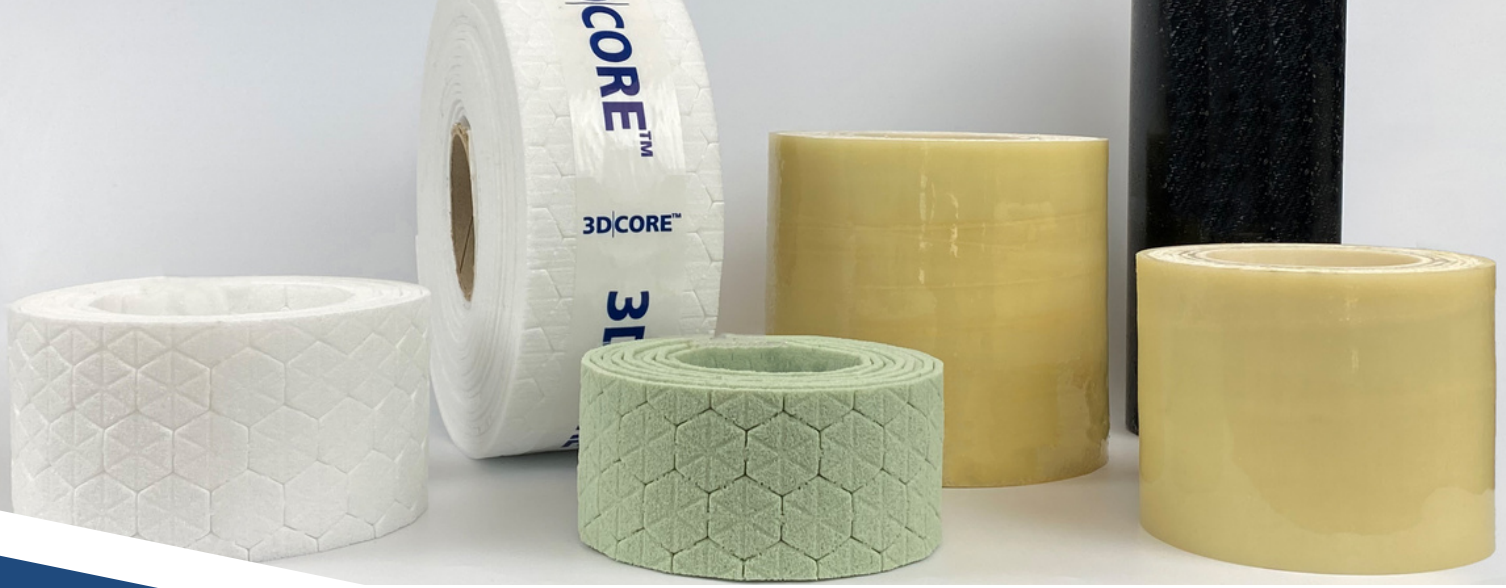
- Basis: 3D|CORE™ PET GR, PET, PET FR, XPS
- Whether convex or concave, plane or with a tight bending radius - suitable for almost any shape
- Available in 3mm to 29mm thickness
- Dimensions: 405 mm x 1015 mm (L x W), we are happy to produce larger dimensions for you on demand

3D|CORE™ ASSEMBLY KITS



CUSTOMIZED HIGH-SPEED ASSEMBLY KITS FOR AN EFFICIENT AND SUSTAINABLE PRODUCTION

- Basis: cut-to-size 3D|CORE™ core materials and fibre cuttings
- For the fastest possible component production
- Reducing scrap and ensuring an optimal material consumption
- Creation of a suitable insertion plan with the labelled cuts for your mould
- Precise cutting according to the final drawings including all angles and curves



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3D CORE™ PRODUCTS

3D CORE™ ROLLS



THE IDEAL CORE FOR LONGER AND LARGER COMPOSITE COMPONENTS

- Basis: 3D CORE™ PET GR, PET FR
- Easy unwinding
- Available in 3mm to 10mm thickness
- Dimensions: 405 mm width, length according to your requirements

3D CORE™ TAPES



THE IDEAL CORE FOR AN EFFICIENT AND FAST WINDING PROCESS

- Basis: 3D CORE™ PET GR
- For the production of rollers, pipes, masts and tanks
- Easy wrapping around the carrier
- Available in 3mm to 10mm thickness
- Dimensions: 47 - 115 mm width, length according to your requirements

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ENGINEERING

PROCUREMENT

PRODUCTION

CERTIFICATION

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