LIABILITY FOR DEFECTS

All information provided herein is based on our current knowledge and experience. Due to the high number of possible influences during processing and application, the information does not release the processor from the necessity of carrying out his own investigations and tests. Information contained herein and explanations provided by ThermHex Waben GmbH do not relieve the processor from the necessity of carrying out his own investigations and tests. Information contained herein and explanations provided by ThermHex Waben GmbH do not constitute acceptance of a guarantee. Guarantee statements require special explicit written declarations on behalf of ThermHex Waben GmbH to be effective. The constitutions stated in this datasheet determine the properties of the delivery item extensively and conclusively. Application suggestions do not establish assurance of suitability for the recommended application.

We reserve the right to adapt the product to satisfy technical progress and new developments. We would be pleased to help with any inquiries regarding the suitability of our products. If the application for which our products are used is subject to statutory approval, the user is responsible for the procurement of such approval. Our recommendations do not release the user from the obligation of taking the possibility of impairments to third-party rights into account and of clarifying these if necessary. Furthermore we refer to our General Terms and Conditions, especially with regard to any possible liability for defects. If you are not in possession of our General Terms and Conditions, we would be pleased to supply these on request.

**RPET HONEYCOMB CORE MATERIAL**

**RECYCLED PET CORES**

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**ADVANTAGES**
- Major cost reduction
- Significant weight saving
- High compression and shear properties
- High temperature stability
- Resistant to moisture, acids and bases
- 95% made from recycled material
- 100% recyclable
- Very low CO2 footprint
**PHYSICAL PROPERTIES**

**Compressive strength (Z-direction)**: ASTM C395-57
- THrPET80: 1.4 MPa (203 Psi)
- THrPET120: 2.5 MPa (363 Psi)

**Compressive modulus (Z-direction)**: ASTM C395-57
- THrPET80: 20 MPa (2,901 Psi)
- THrPET120: 35 MPa (5,076 Psi)

**Shear strength (CD, L)**: ASTM C273-93
- THrPET80: 0.6 MPa (87 Psi)
- THrPET120: 1.1 MPa (160 Psi)

**Shear modulus (CD, L)**: ASTM C273-93
- THrPET80: 32.8 MPa (4,757 Psi)
- THrPET120: 49.0 MPa (7,076 Psi)

**Temperature range for processing and application (°C)**
- THrPET80: -40 to +180
- THrPET120: -40 to +180

**Thermal conductivity**
- 0.065 W/mK

**Fire-resistance**
- Normally inflammable (building material class B2 according to DIN 4102-1, respectively D according to EU classification), however, higher grades of fire resistance can be obtained in sandwich elements when using specialized skin materials.

**Chemical resistance**
- Excellent resistance to water, most acids, bases and salt solutions.