

On the road again



TRUCK APPLICATIONS



**CORE  
MATERIALS**

Tailored solutions for  
**AUTOMOTIVE**

[www.3ACcorematerials.com](http://www.3ACcorematerials.com)

# Best performance and value for truck applications in Automotive

## AIREX® PET & BALTEK® SBC - Proven processes with the most sustainable cores

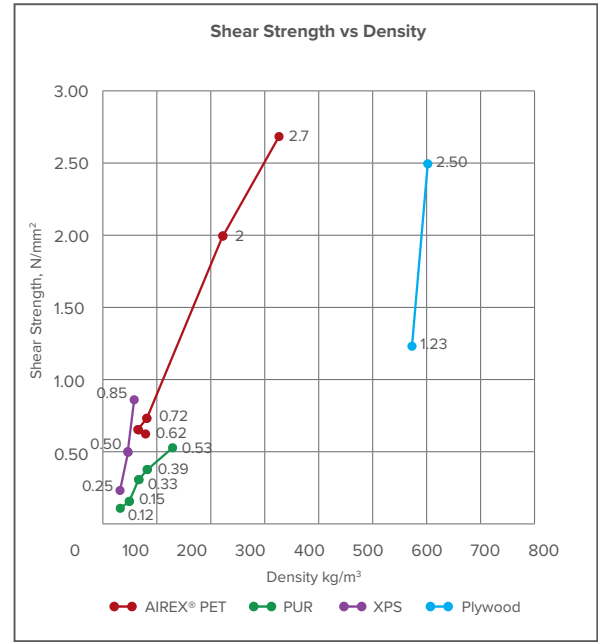
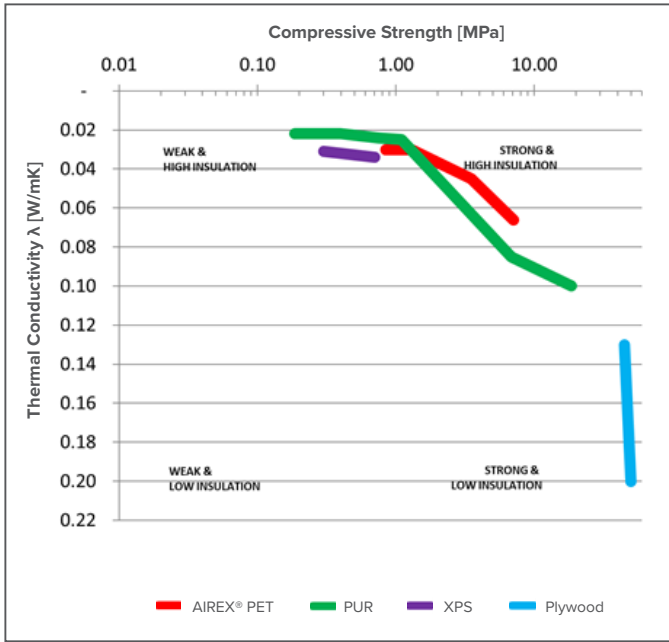
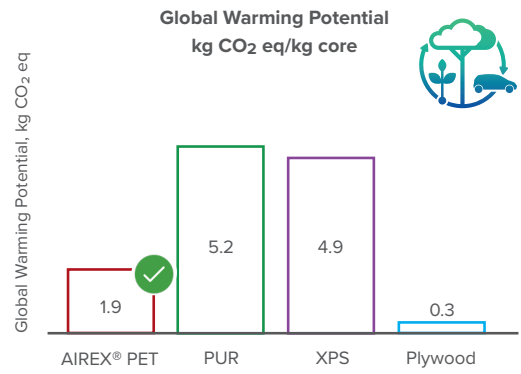
All road transport applications strive for reduced structural weight. This not only saves fuel consumption considerably but also allows a higher payload – both drivers that directly influence the operating cost (or revenue) of a vehicle. Composites and especially the sandwich technology offer unique potential for significant weight savings.

Based on the vast expertise and know-how in the design of sandwich constructions, we offer cutting-edge in-house design support to assist customers in developing new solutions and leveraging the respective weight savings. For automotive and road applications we particularly recommend the following materials:

Floor element	Truck sidewall panels	EV battery enclosure concept
Materials		
<p><b>AIREX® T92.200</b></p> <p><b>AIREX® T92.280</b></p> <p><b>AIREX® T10.170</b></p> <p><b>BALTEK® SBC.100</b></p>	<p><b>AIREX® T92.60</b></p> <p><b>AIREX® T92.80</b></p> <p><b>AIREX® T92.100</b></p>	<p><b>AIREX® T90.60</b></p> <p><b>AIREX® T90.100</b></p> <p><b>BALTEK® SBC</b></p>
Advantages		
<ul style="list-style-type: none"> <li>• Weight reduction</li> <li>• Stiffness increase</li> <li>• Part consolidation</li> </ul>	<ul style="list-style-type: none"> <li>• Weight reduction</li> <li>• Thermal insulation</li> <li>• Damage tolerance</li> <li>• Corrosion resistance</li> </ul>	<ul style="list-style-type: none"> <li>• High specific stiffness and strength</li> <li>• Thermal insulation</li> <li>• Effective fire protection</li> <li>• Tailored impact performance</li> <li>• Ease of manufacturing</li> </ul>



	AIREX®	XPS	PU	Plywood
Fully recyclable	✓		✗	
Compressive	✓	✗	✗	✓
Bending stiffness	✓	✗	✗	✓
Long-term resistance	✓		✗	✓
Thermal insulation	✓	✓	✓	✗
Moisture absorption	✓	✓	✗	✗
Weight for same mech. prop.	✓	✗	✗	✗
Sustainability (CO <sub>2</sub> eq.)	✓	✗	✗	✓
Handling & dust	✓	✓	✗	✓



### 3A Composites Core Materials - Global market leader with local resources



Europe | Middle East | India | Africa

**Airex AG**

5643 Sins, Switzerland

T +41 41 789 66 00

corematerials@3AComposites.com

North America | South America

**Baltek Inc.**

High Point, NC 27261, USA

T +1 336 398 1900

corematerials.americas@3AComposites.com

Asia | Australia | New Zealand

**3A Composites (China) Ltd.**

201201 Shanghai, China

T +86 21 585 86 006

corematerials.asia@3AComposites.com

---

issue 03.2023



[www.3Acorematerials.com](http://www.3Acorematerials.com)

