



## SAERcore LEO®

# CLOSED MOLD REINFORCEMENTS WITH INTEGRATED FIRE PROTECTION

**SAERcore®** with integrated LEO® fire protection. This **SAERTEX®** product consists of two layers of chopped strand mat (CSM) and an intelligent flow mesh. It achieves HL3 fire protection in accordance with EN 45545-2. **SAERcore LEO** offers the optimum solution, particularly for painted components in the interior of rail vehicles.

### 1 Safety and fire protection in accordance with EN 45545-2 for painted components

Fulfills the legal requirements for fire protection in rail vehicles // Verifiable for hazard levels HL2 and HL3 // Halogen-free // Lower combustibility without compromising drapability and weight.

### 2 Easy to work with and drape

Rapid wet-out and homogeneous impregnation in the RTM and RTM Light processes // Ideal for interior components with complex shapes and high surface quality requirements.

### 3 Intelligent flow mesh for resins with high viscosities

Modified polypropylene core for resins with high viscosities of 500 to 1000 mPas // No filtration of ATH fillers.

### 4 Self-adhesive in combination with SAERfix®

Solve the challenge of application with dry Gelcoat // Enables optimum molding and positioning, even for vertical surfaces.

### 5 Everything from a single supplier

Whether it is an interior or structural component with fire protection: Different issues, diverse solutions, single point of contact // Experts in fire protection with **SAERTEX LEO®** series // **SAERcore LEO**, LEO COATED FABRIC, LEO system.

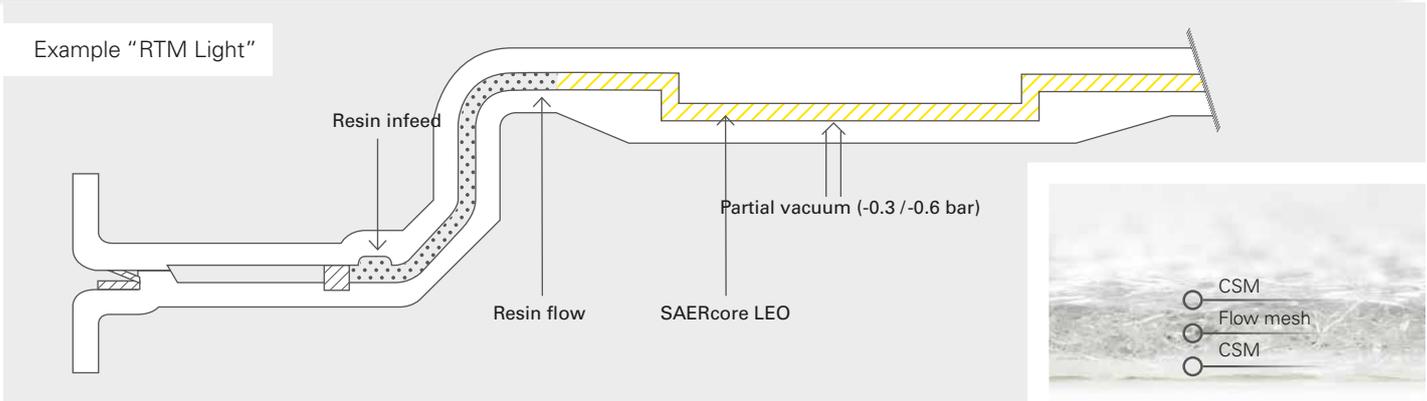
### 6 Worldwide availability

Global production network with 14 locations in 10 countries on 5 continents.

Matches EN 45545-2 laminate requirements  
(HL2/HL3 for R1, R7, R10 and R17)

TEST PROCEDURE	TEST VALUE	Requirements for hazard levels		Test result SAERcore LEO painted
		HL2	HL3	
ISO 5658-2 Spread of flame	CFE [kW/m <sup>2</sup> ]	≥20	≥20	25.4
ISO 5660-1 Rate of heat emission	MARHE [kW/m <sup>2</sup> ]	≤90	≤60	51.9
DIN EN ISO 5659-2 Optical density of smoke	D <sub>s</sub> (4)	≤300	≤150	79
	D <sub>s max</sub>	≤600	≤300	162
	VOF <sub>4</sub>	≤600	≤300	198

Test set-up: SAERcore UFR 750/PP24/750 // Mäder paint // BÜFA-Firestop GCS 285 // BÜFA-Firestop 8175-W1 // Further fire test results on request



TECHNICAL DATA	SAERcore LEO		
Process	RTM, RTM Light process		
<b>COMPONENTS</b>			
CSM per layer [g/m <sup>2</sup> ]	450	600	750
Cavity (with Gelcoat) [mm]	2.5-3	3-3.5	3.5-4
Flow mesh	PP24 = 240 g/m <sup>2</sup>		
<b>WIDTHS</b>			
Standards	1250 mm, 2500 mm		
Individual tapes	On request		
<b>EXTRAS</b>			
Kits (from template or CAD file)	✓		
SAERfix (self-adhesive)	✓		
<b>MECHANICAL PROPERTIES*</b>			
<b>Tensile test DIN EN ISO 527-4</b>			
Modulus of elasticity in tension	11 GPa		
Tensile strength	75 MPa		
<b>Bending test DIN EN ISO 14125</b>			
Modulus of elasticity in bending	9.6 GPa		
Bending strength	220 MPa		

\* Test set-up: SAERcore LEO 750/PP24/750 // Crestapol 1211 // Fireguard 78 pa

