

# COMPOSITES

## Datasheet Coremat® XM

### Lantor Coremat® XM

- The cost effective solution for open mould processes
- Is used as core material and/or print blocker
- Is a polyester nonwoven and compatible with all regular types of resins, including Polyester, Vinylester, Phenolic and Epoxy
- Is suitable for hand lay-up and spray-up processes

### Applications Lantor Coremat® XM

- Marine: hulls, decks, and structures of boats and yachts
- Transportation: parts and panels of cars, trailers and trucks
- Mass transit: interior and exterior of trains, light rail and buses
- Leisure: kayaks, surfboards, pools and tubs
- Industrial: cladding panels, containers and tanks
- Wind Energy: nacelle covers and spinners

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### Dimensional data

| Properties          |                   | XM 2 | XM 3 | XM 4 | XM 10 |
|---------------------|-------------------|------|------|------|-------|
| Thickness           | mm                | 2,0  | 3,0  | 4,0  | 10,0  |
| Roll length         | m                 | 80   | 50   | 40   | 15    |
| Roll width          | m                 | 1    | 1    | 1    | 1     |
| Resin uptake        | kg/m <sup>2</sup> | 1,0  | 1,5  | 2,0  | 6,5   |
| Dry weight          | g/m <sup>2</sup>  | 80   | 110  | 140  | 250   |
| Density impregnated | kg/m <sup>3</sup> | 540  | 540  | 540  | 680   |

### Typical mechanical properties of Lantor Coremat® XM\* impregnated with unsaturated polyester resin

| Mechanical properties            | unit | value | test method  |
|----------------------------------|------|-------|--------------|
| Flexural strength                | MPa  | 8,5   | ASTM D790    |
| Flexural modulus                 | MPa  | 1250  | ASTM D790    |
| Tensile strength across layers   | MPa  | 4     | ASTM C297    |
| Compression strength: 10% strain | MPa  | 10    | ISO 844      |
| Shear strength                   | MPa  | 3     | ASTM C273-61 |
| Shear modulus                    | MPa  | 25    | ASTM C273-61 |
| *Lantor Coremat® XM 3            |      |       |              |

### Information

PO box 45 - 3900 AA  
Verlaat 22 - 3901 RG  
Veenendaal  
The Netherlands  
T +31(0) 318 537 111  
composites@lantor.com

enabling performance  
[www.lantor.com](http://www.lantor.com)

