



MNLO20

Material Datasheet

Material Description & Properties

Mechanical properties of the core material

Density (Kg/m ³)	ISO 7322	170-235
Compressive strenght (MPa)	ASTM C365	0,5*
Compressive modulus (MPa)	ASTM C365	6,0*
Tensile strenght (MPa)	ISO 7322	>0,4
Shear strenght (MPa)	ASTM C273	0,9*
Shear modulus (MPa)	ASTM C273	5,9*
Thermal conductivity (W/mK)	ISO 8301	0,044*
Loss factor (at 1Hz)	ASTM D5023	0,100*

Mechanical properties of the core material in a composite ⁽¹⁾

Flexural strenght at yield (MPa)	ASTM D790	56*
Flexural modulus (GPa)	ASTM D790	4*
Shear strenght at yield (MPa)	ASTM C392	0,9*
Shear modulus (MPa)	ASTM C392	41*
Compressive strenght at yield (MPa)	ASTM C365	2,2*
Compressive modulus (MPa)	ASTM C365	23*
Water absorption (%)	ASTM C272	<4*
Panel density	-	0,560*

⁽¹⁾ Samples made by Infusion (0,6 bar) with epoxy resin ref. SR8100/cat.ref. SD8824 and two layers of 300g/m² glass fibre roving, on each side, sandwich thickness: 6,5 mm; cure at 60°C; samples tested after 5 days of manufacturing. * Typical values

Flexibility and excellent conformability make **MNLO20** possible to be easily integrated into fast production cycles. This product can be processed by hand layup, vacuum bagging and infusion processes and will withstand manufacturing temperatures up to 150°C.

The unique properties of **MNLO20** such as: a closed air filled cell structure, low water absorption, rot resistance and high level of noise and vibration attenuation make it an excellent core material for the composites industry - perfectly aligned with the new green classifications.

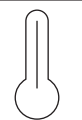
Key features

- Good drapeability
- Print blocking capability
- Stable material
- Lower resin consumption
- Resin compatibility (Excelent for: Epoxy, Polyester, Phenolic, Vynilester and Polyurethane)

Lightweight



Thermal insulation



Vibration damping



Sustainable and energy efficient



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