

# TECHNICAL DATASHEET

## **MILLIFOAM APS100GR**

MILLIFOAM® APS100GR is a closed-cell, thermoplastic polyethylenterephthalat (PET) based structural foam core made from 100% post-consumer PET and is still recyclable after its use phase. The foam grade offers new perspectives towards sustainable composite products and is steadily substituting core materials such as Balsa, SAN or PVC.

Polymer	rPET (100% rec.)	Sheet Size	2440 x 500 mm
Thickness range	1.0-7.0 mm	Supplier	Armacell

MILLIFOAM® APS100GR has a high temperature resistance up to 150°C (300°F), which leads to shorter cycle times, increased productivity and better mechanical properties in the laminate. The foam is compatible with all common resin systems and lamination processes like infusion or prepreg. Its thermoformability provides tremendous manufacturing advantages and makes it easy to shape by machining. MILLIFOAM® APS100GR can be used in wind energy, rail and road transport, marine or building and construction.

### Properties

Density	100 kg/m <sup>3</sup>
Compressive Strength	1.5 MPa
Compressive Modulus	160 MPa
Tensile Strength	2.5 MPa
Tensile Modulus	120 MPa
Shear Strength	0.75 MPa
Shear Modulus	21 MPa
Thermal Conductivity at 23°C	0.034 W/mK
Thermoforming Temperature	155-190°C (311-374°F)

### Disclaimer

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