

TECHNICAL DATASHEET

Nov. 26th, 2024

MILLIFOAM DIV105PY

DIV105PY is a high-performance PET sandwich core suitable for various applications and processes, including infusion, prepreg, and press bonding. It offers high shear strain and low resin consumption. This core material is specifically designed and developed to optimize blade designs.

Polymer	PET	Sheet Size	2440 x 500 mm
Thickness range	0.5 - 5.0 mm	Supplier	Diab

This material is recyclable, thermoformable, and allows for high processing temperatures, with low density variation and resin uptake. It also offers high shear elongation, good chemical resistance, and compatibility with most common glues and resin systems.

Properties

Density	105 kg/m ³
Compressive Strength	1.5 MPa
Compressive Modulus	112 MPa
Shear Strength (parallel to welding lines)	0.95 MPa
Shear Modulus (parallel to welding lines)	25 MPa
Shear Strength (perpendicular to welding lines)	0.85 MPa
Shear Modulus (perpendicular to welding lines)	23 MPa
Shear Strain (perpendicular to the plane)	30 %
Thermal Conductivity at 23 °C	0.034 W/mK
Thermoforming Temperature	155 - 190 °C (311 - 374 °F)

Disclaimer

MILLIFOAM® is a registered trademark of 4a manufacturing GmbH. We have taken great care in preparing the presented data and technical advice. However, the data is based on vendor information and no warranty is made, either expressed or implied, regarding its accuracy or the results to be obtained from the use of such information.



4a manufacturing GmbH
Industriepark 1 // A-8772 Traboch
office@4a-manufacturing.at // +43 664 80106-600

www.4a-manufacturing.at