

TECHNICAL DATASHEET

MILLIFOAM DIV50F

MILLIFOAM® DIV50F is a closed-cell, rigid polymer foam based on polyether sulfone (PESU) chemistry. It offers excellent fire, smoke and toxicity (FST) properties and good mechanical and processing characteristics. It is the material of choice for structures, radomes and interior design and additionally meets the US and European regulatory requirements for commercial aircraft interiors.

Polymer	PESU	Sheet Size	2440 x 610 mm
Thickness range	1.0-3.0 mm	Supplier	Diab Group

MILLIFOAM® DIV50F is compatible with most common aerospace composite processes including vacuum bag processing and matched tooling and press processing with temperatures up to 220°C (428°F). It fulfils exceptional fatigue life, good chemical resistance and excellent heat ageing at 180°C (356°F). As core material in sandwich structures it is hot and cold formable and is fast and easy to process. The thermoforming process window depends on geometry, applied stretching, thermoforming method and sheet thickness. Up to 200°C the foam is rather robust.

Properties

Density	50 kg/m ³
Compressive Strength (ASTM D 1621)	0.6 MPa
Compressive Modulus (ASTM C 365)	18 MPa
Tensile Strength (ASTM D 1623)	1.9 MPa
Shear Strength (ASTM C 273)	0.8 MPa
Shear Modulus (ASTM C 273)	13.5 MPa
Dielectric constant @ 10GHz	1.10
Loss tangent @ 10 GHz	0.0018
Coefficient of Thermal Expansion	2.0 1/K*10E-5
Thermoforming Temperature	205-230°C (401-446°F)

Disclaimer

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

www.4a-manufacturing.at