

TECHNICAL DATASHEET

MILLIFOAM DIV90F

MILLIFOAM® DIV90F 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	2380 x 580 mm
Thickness range	1.0-3.0 mm	Supplier	Diab Group

MILLIFOAM® DIV90F 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	90 kg/m ³
Compressive Strength	1.2 MPa
Compressive Modulus	34 MPa
Tensile Strength	2.8 MPa
Shear Strength	1.4 MPa
Shear Modulus	24 MPa
Dielectric constant @ 10GHz	1.13
Loss tangent @ 10 GHz	0.0022
Coefficient of Thermal Expansion	2.0 1/K*10E-5
Thermoforming Temperature	205-230°C (401-446°F)

Disclaimer

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