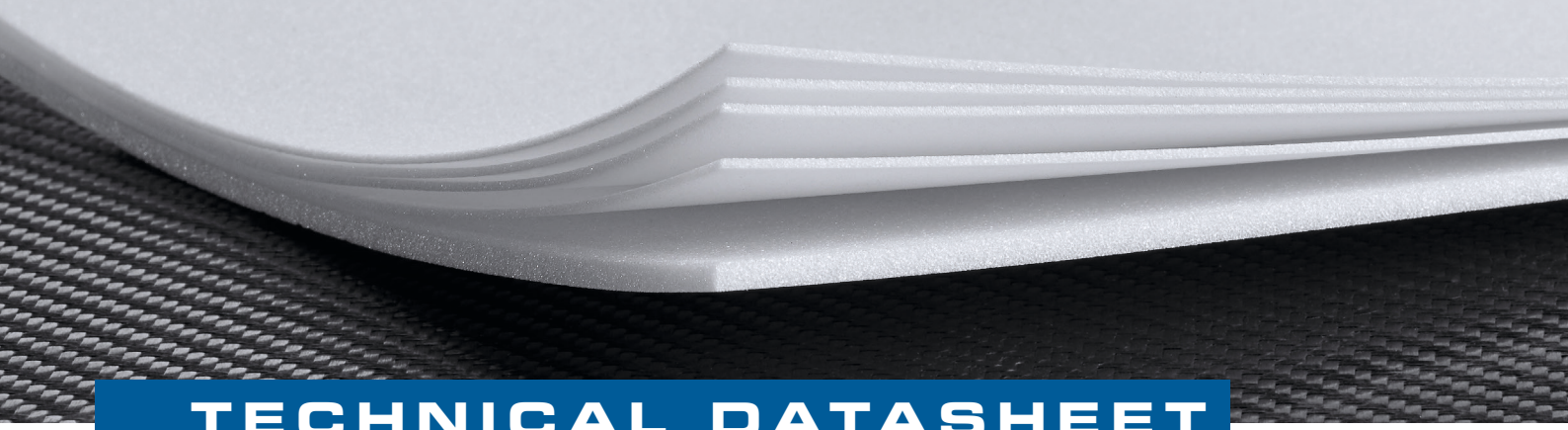

TECHNICAL DATASHEET

MILLIFOAM RHC51HO

MILLIFOAM® RHC51HO is the new standard in aircraft structural core material. It is the recommended foam for core material in sandwich structures for aircraft wings, landing gear doors, radomes, vertical and horizontal stabilizers, ailerons and other areas subjected to surface impact damage. The foam is qualified by AIRBUS under AIMS 04-11-011 and ABS5955 standard for aircraft structural parts.

Polymer	PMI	Sheet Size	2500 × 625 mm
Thickness range	0.2–3.0 mm	Supplier	Evonik GmbH

Featuring an extremely high heat resistance of up to 210 °C (428 °F), processing and curing temperatures can be increased resulting in a significant reduction in total cycle time and faster component manufacturing. MILLIFOAM® RHC51HO is well suited for autoclave, resin infusion, RTM and VARTM processes.

Properties	
Density	52 kg/m³
Compressive Strength	0.6 MPa
Compressive Modulus	32 MPa
Tensile Strength	2.6 MPa
Tensile Modulus	82 MPa
Elongation at Break	8.0 %
Shear Strength	0.7 MPa
Shear Modulus	22 MPa
Coefficient of Thermal Expansion	3.76 1/K*10E-5
Thermoforming Temperature	190 °C (374 °F)
Drying Conditions	4 hrs @ 130 °C ± 5 °C (266 °F ± 9 °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.

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4a MANUFACTURING

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