

TECHNICAL DATASHEET

MILLIFOAM RHC110HE

MILLIFOAM® RHC110HE 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. Featuring an extremely high heat resistance of up to 210°C (428°F), processing

Polymer	PMI	Sheet Size	2160 x 550 mm
Thickness range	0.5-2.0 mm	Supplier	Evonik GmbH

and curing temperatures can be increased resulting in a significant reduction in total cycle time and faster component manufacturing. MILLIFOAM® RHC110HE is well suited for autoclave, resin infusion, RTM and VARTM processes. Drying prior to processing will improve the creep resistance behaviour of the foam and is important when processing temperatures will be above 100°C (212°F), depending on the process pressure.

Properties

Density	110 kg/m ³
Compressive Strength	2.5 MPa
Compressive Modulus	83 MPa
Tensile Strength	6.3 MPa
Tensile Modulus	189 MPa
Elongation at Break	9.9 %
Shear Strength	2.3 MPa
Shear Modulus	50 MPa
Coefficient of Thermal Expansion	3.72 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.



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