

TECHNICAL DATASHEET

MILLIFOAM RHC110RI

MILLIFOAM® RHC110RI is a closed-cell rigid foam based on polymethacrylimide (PMI) chemistry and contains no CFC's. The fine cell structure ensures a minimum resin uptake behaviour of approx. 50g/m², which allows the end weight of the component to remain extremely low. The foam is used for infusion components in aeronautic and aerospace applications, in sports equipment and in automotive constructions.

Polymer	PMI	Sheet Size	2160 x 550 mm
Thickness range	0.5-1.0 mm	Supplier	Evonik GmbH

Featuring an extremely fine cell structure, MILLIFOAM® RHC110RI is well suited for vacuum infusion and RTM processes where the cell fine-cell foam can also be used purely as a fly-away tool. Processing is possible at temperatures up to 130°C (266°F) and pressures up to 0.7 MPa (102 psi). The foam can be easily thermoformed or CNC machined to meet customized application requirements. 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	3.6 MPa
Tensile Strength	3.7 MPa
Tensile Modulus	180 MPa
Elongation at Break	7.0 %
Shear Strength	2.4 MPa
Shear Modulus	70 MPa
Coefficient of Thermal Expansion	3.64 1/K*10E-5
Thermoforming Temperature	195°C (383°F)
Drying Conditions	4 hrs @ 130°C ± 5°C (266°F ± 9°F)

Disclaimer

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