

TECHNICAL DATASHEET

MILLIFOAM RHC110SL

MILLIFOAM® RHC110SL is a closed-cell rigid foam based on polymethacrylimide (PMI) chemistry. This foam type provides excellent strength and bending stiffness when needed. It offers outstanding mechanical strength and can resist high tensile loads. These properties make this foam type an excellent choice for applications with dynamic mechanical loads.

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

Featuring a fine cell structure, MILLIFOAM® RHC110SL ensures minimal resin uptake while ensuring a strong connection to skin layers. The high curing temperatures reduce cycles times and provide excellent laminate properties. 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	3.0 MPa
Compressive Modulus	150 MPa
Tensile Strength	6.0 MPa
Tensile Modulus	202 MPa
Elongation at Break	4.7 %
Shear Strength	2.3 MPa
Shear Modulus	58 MPa
Coefficient of Thermal Expansion	3.85 1/K*10E-5
Thermoforming Temperature	200°C (392°F)
Drying Conditions	4 hrs @ 130°C ± 5°C (266°F ± 9°F)

Disclaimer

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