Evonik Corporation Rohacell® 110 A Aircraft Grade Polymethacrylimide (PMI) Foam

Category : Other Engineering Material , Composite Core Material , Polymer , Thermoset , Polymethacrylimide

Material Notes:

Description: ROHACELL® is produced by thermal expansion of a co-polymer sheet of methacrylic acid and methacrylonitrile. During the foaming process the copolymer sheet is converted to PMI - PolyMethacrylImide. Alcohol is used as a blowing agent, thus ROHACELL® contains no fluorinated carbon hydrates and is halogen free. It has a very homogeneous cell structure and isotropic properties.Specific Notes for this Material: ROHACELL® A (Aircraft grade) is a closed-cell rigid foam plastic based on PMI (polymethacrylimide) which does not contain any CFCs. The field of application for ROHACELL® A is aircraft construction. Curing temperature up to 130C (266F). Curing pressure up to 0.35 MPa (50 psi). Sandwich components using ROHACELL® A as core material can be realized in a single work step (= cocuring).The structural components can be manufactured in an autoclave and by means of RTM. ROHACELL® A is easy to shape. Thermoformability is another advantage of the core material.Information provided by degussa.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Evonik-Corporation-Rohacell-110-A-Aircraft-Grade-Polymethacrylimide-PMI-Foam.php

Physical Properties	Metric	English	Comments
Density	0.110 g/cc	0.00398 lb/in³	DIN 53420, ISO 845, ASTM D 1622

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	3.50 MPa	508 psi	DIN 53455, ISO 527-2, ASTM D 638
Elongation at Break	4.5 %	4.5 %	DIN 53455, ISO 527-2, ASTM D 638
Modulus of Elasticity	0.160 GPa	23.2 ksi	ISO 527-2, ASTM D 638
Flexural Strength	4.50 MPa	653 psi	DIN 53423, ISO 1209, ASTM D 790
Compressive Strength	3.00 MPa	435 psi	DIN 53421, ISO 844, ASTM D 1621
Shear Modulus	0.0500 GPa	7.25 ksi	DIN 53294, ASTM C 273
Shear Strength	2.40 MPa	348 psi	DIN 53294, ASTM C 273

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 °C	356 °F	Heat Distortion Resistance; DIN 53424

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