Evonik Corporation Rohacell® 71 HF High Frequency 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® HF (= High Frequency) is a closed-cell rigid foam plastic based on PMI (polymethacrylimide) which does not contain any CFCs. The fields of application for ROHACELL® HF are antennas, radomes and X-ray tables. Curing temperature up to 130C (266F). Curing pressure up to 0.35 MPa (50 psi). Sandwich components using ROHACELL® HF as core material can be realized in a single work step (= cocuring). ROHACELL® HF 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-71-HF-High-Frequency-Grade-Polymethacrylimide-PMI-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0750 g/cc	0.00271 lb/in³	DIN 53420, ISO 845, ASTM D 1622

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	2.80 MPa	406 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	0.0920 GPa	13.3 ksi	ISO 527-2, ASTM D 638
Compressive Strength	1.50 MPa	218 psi	DIN 53421, ISO 844, ASTM D 1621
Shear Modulus	0.0290 GPa	4.21 ksi	DIN 53294, ASTM C 273
Shear Strength	1.30 MPa	189 psi	DIN 53294, ASTM C 273

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China