

## Evonik Corporation Rohacell® 110 XT Extended Temperature 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® XT (= Extended Temperature) is a closed-cell rigid foam plastic based on PMI (polymethacrylimide) which does not contain any CFCs. ROHACELL® XT serves as a core material in advanced BMI-sandwich parts used in aircraft and space construction. Curing temperature up to 190C (374F). Curing pressure up to 0.7 Mpa (100 psi) and post-curing temperature (free-standing) up to 230C (446 F). Sandwich components using ROHACELL® XT as a 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® XT 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-XT-Extended-Temperature-Grade-Polymethacrylimide-PMI-Foam.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Rohacell-110-XT-Extended-Temperature-Grade-Polymethacrylimide-PMI-Foam.php)

Physical Properties	Metric	English	Comments
Density	0.110 g/cc	0.00398 lb/in <sup>3</sup>	DIN 53420, ISO 845, ASTM D 1622

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	3.70 MPa	537 psi	DIN 53455, ISO 527-2, ASTM D 638
Elongation at Break	4.0 %	4.0 %	DIN 53455, ISO 527-2, ASTM D 638
Modulus of Elasticity	0.180 GPa	26.1 ksi	ISO 527-2, ASTM D 638
Compressive Strength	3.60 MPa	522 psi	DIN 53421, ISO 844, ASTM D 1621
Shear Modulus	0.0630 GPa	9.14 ksi	DIN 53294, ASTM C 273
Shear Strength	2.10 MPa	305 psi	DIN 53294, ASTM C 273

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	240 °C	464 °F	Heat Distortion Resistance; DIN 53424

## Contact Songhan Plastic Technology Co.,Ltd.

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