

Evonik Corporation Rohacell® P 170 Polymethacrylimide (PMI) Rigid Foam Sheet (discontinued **)

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

Material Notes:

ROHACELL P 170 is a compacted grade with an oriented cell structure leading to high strength and rigidity in the plane of the sheet. General ROHACELL Information: ROHACELL is a closed-cell rigid expanded plastic material for lightweight sandwich construction. It has excellent mechanical properties, high dimensional stability under heat, solvent resistance and, particularly at low temperature, a low thermal conductivity. The strength and moduli values are the highest for any foamed plastic in its density range. ROHACELL is manufactured by hot forming of methacrylic acid/methacrylonitrile copolymer sheets. During foaming this copolymer is converted to polymethacrylimide. Information supplied by Emkay Plastics, Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Rohacell-P-170-Polymethacrylimide-PMI-Rigid-Foam-Sheet-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.170 g/cc	0.00613 lb/in ³	ASTM D1622-63

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	7.38 MPa	1070 psi	ASTM D638-68
Elongation at Break	5.0 %	5.0 %	ASTM D638-68
Modulus of Elasticity	0.314 GPa	45.5 ksi	ASTM D638-68
Flexural Yield Strength	9.79 MPa	1420 psi	Perpendicular to Sheet; ASTM D 790-66
	10.3 MPa	1490 psi	ASTM D790-66
Compressive Yield Strength	2.74 MPa	398 psi	Perpendicular to Sheet; ASTM D 1621-64
	6.37 MPa	924 psi	ASTM D1621-64
Shear Modulus	0.0862 GPa	12.5 ksi	ASTM C273-61
Shear Strength	2.94 MPa	427 psi	Perpendicular to Sheet; ASTM C 273-61
	4.41 MPa	640 psi	ASTM C273-61

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 °C	266 °F	Dimensional stability per DIN 53424; oriented cell structure starts to decrease beyond this temperature.

Descriptive Properties	Value	Comments
Color	White	

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