

PYROPEL® MD-30

Rigid, 550°F Insulation Board

Rev. 11/19

Pyropel MD-30 is a rigid, polyimide hardboard insulation. It can be used continuously under compressive loads up to 550°F. It is designed to be a slightly compressible thermal spacer or insulation in tooling, die press, and machinery applications. Pyropel MD-30 does not burn, melt, drip or emit noxious odors when in direct contact with flame.

Pyropel MD-30 is a three dimensionally reinforced material with excellent shear strength and durability. It can be cut easily with a sharp knife or blade and machines readily. Drilling, milling, routing and sawing processes can all be used with standard high speed steel cutting tools. Pyropel has excellent chemical resistance to most strong solvents, acids, lubricants and fuels.

TYPICAL PROPERTIESSIEnglish

Form:	Rigid Fiberboard	Rigid Fiberboard
Color:	Gold	Gold
Density:	.47g/cm ³	30 lb/ft ³
Glass Transition Temp (T _g):	315°C	600°F
Tensile Modulus (ASTM D638)	216 MPa	31,400 psi
Tensile Elongation	29%	29%
Break Stress	11 MPa	1600 psi
Compressive Modulus (ASTM D695):	105 MPa	15,000 psi
Service Temperature Limit:		
Continuous:	285°C	550°F

Combustion/Burn Data:

Limiting Oxygen Index (LOI)	40%	40%
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Thermal Conductivity (k) (ASTM-C518)

@ 25°C (77°F)	0.049 $\frac{W}{m \cdot ^\circ K}$	0.34 $\frac{BTU \cdot in}{Hr \cdot ft^2 \cdot ^\circ F}$
@ 93°C (200°F)	0.052	0.36
@ 149°C (300°F)	0.056	0.39
@ 204°C (400°F)	0.063	0.44

SUGGESTED USES

Pyropel MD-30 is a tough, durable, non-ceramic insulation board that can be cut and machined easily into thermal spacers or skins for use in hot runner injection molds, heated presses, or industrial machinery where a hot zone needs to be thermally isolated and the insulation is under compressive stress. The product is slightly compressible and will conform to surface irregularities under pressure for a full contact surface fit.

AVAILABLE FORMS

Pyropel MD-30 is available in flat 2' x 2' and 2' x 3' panels in 5/16" thickness. Contact Pyropel, Inc. for quotes on formed parts or to explore the possible development of a grade to custom-fit your needs.

IMPORTANT NOTICE REGARDING THIS INFORMATION

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