

#446 Polyisocyanurate Foam Blocks



Overview:

Polyisocyanurate foam has been a favorite material of pattern builders for years. Now, in 6 foot lengths, and up to 2' thick, you can cut, carve, sand, and sculpt any shape imaginable without gluing numerous sheets together or pouring your own block. With a variety of tools available on our site, you can saw, carve, plane and smooth out your shape. You will then lay layers of fiberglass and resin to protect and strengthen your shape. Finally, you will spray Duratec® Surfacing Primer and buff to a perfect shine. A perfect plug allows for a perfect mold which makes the high gloss, perfect part you want.

Features & Benefits:

- Shapes and cuts very easily
- Comes in different block sizes
- Will not melt when resin is applied to the surface.
- Can be used as insulation in some applications
- Often used for CNC plug and pattern making

Typical Product Properties:

Physical Properties		English	ASTM Method
Density, Average		2.0 lb/ft ³	D1622
K-Factor	Initial at 75° F (24°C)	0.165BTU·in/hr·ft ² ·°F	C158
	Aged 10 Days at 158° F (70° C)	0.185BTU·in/hr·ft ² ·°F	C158
R-value/inch	Aged 10 Days at 158°F (70°C)	5.4 Hr·ft ² ·°F	
Closed Cell Content		92%	D2856
Friability (Weight Loss)		8%	C421
Water Absorption (By Volume)		1.27%	C272
Water Vapor Transmission		3.1 perms/in	E96
Dimensional Stability (Volume Change)	158°F (70°C) + 97% R.H./7 Days	+4.0%	D2126
	212°F (100°C) + Ambient R.H. 7 Days	+.09%	D2126
	-40°F (-40°C) + Ambient R.H. 7 Days	-.6%	D2126

Typical Product Characteristics:

		English	ASTM Method
Compressive Strength	Parallel	25 lb / in ²	D1621
	Perpendicular	17 lb / in ²	D1621
Compressive Modulus	Parallel	445 lb / in ²	D1621
	Perpendicular	368 lb / in ²	D1621
Shear Strength	Parallel	22 lb / in ²	C273
	Perpendicular	14 lb / in ²	C273
Shear Modulus	Parallel	212 lb / in ²	C273
	Perpendicular	130 lb / in ²	C273
Tensile Strength	Parallel	51 lb / in ²	D1623
	Perpendicular	47 lb / in ²	D1623
Tensile Modulus	Parallel	1395 lb / in ²	D1623
	Perpendicular	1134 lb / in ²	D1623

Safety and Handling:

#446 Polyisocyanurate Foam Sheets contains ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn. Individuals should wash with soap and water before eating, or drinking. Individuals should observe conditions of good industrial hygiene and safe working practice. For more detailed instructions on handling please see the MSDS sheet.