

Polyurethane Foam



Polyurethane Foam is a CFC-free, rigid, closed-cell, flame-retardant foam core and has a density of 6 pounds per cubic foot (PCF). It exhibits a high strength-to-weight ratio due to its cellular structure and cross-linked resin. Because of its closed-cell structure, Polyurethane Foam has great resistance to water absorption, and will not swell, crack, or split on exposure to water.

Physical Properties

Thickness	+/- 15%
Density	6 PCF +/- 10%

Technical Properties

Compressive Strength \parallel to rise	154 psi @ 75°F
Compressive Strength \perp to rise	139 psi @ 75°F
Compressive Modulus \parallel to rise	4275 psi @ 75°F
Compressive Modulus \perp to rise	3437 psi @ 75°F
Tensile Strength \parallel to rise	182 psi
Tensile Strength \perp to rise	174 psi
Tensile Modulus \parallel to rise	5949 psi
Tensile Modulus \perp to rise	5662 psi
Shear Strength \parallel to rise	116 psi
Shear Strength \perp to rise	116 psi
Shear Modulus \parallel to rise	4133 psi
Shear Modulus \perp to rise	1457 psi
Flexural Strength \parallel to rise	226 psi
Flexural Strength \perp to rise	210 psi
Flexural Modulus \parallel to rise	5944 psi
Flexural Modulus \perp to rise	5421 psi
CTE	$\sim 3.4 \times 10^5$ in/in/°F

All the information contained in these properties is believed to be reliable. It is intended for comparison purposes only as each manufactured lot will exhibit variations. The user should evaluate the suitability of each product for their application. We cannot anticipate the variations in all end use and we make no warranties and assume no liability in connection with the use of this information.

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Technical Properties

Closed Cell Content	95.6%
Hardness, Shore-D	11.1
Water Absorption	0.17 lbs/ft ²
Specific Heat @ 25°C	0.353 BTU/lb-°F
Heat Combustion	11706 BTU/lb
Thermal Conductivity	0.205 BTU*in/ft ² *°F*h

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