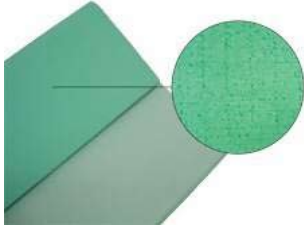


#1024 DIVINIMAT



Overview: #1024 Vinyl Foam is a PVC based, rigid, closed-cell foam with a tri-dimensional grid structure, which provides high thermal stability and structural integrity. As a structural core, Vinyl Foam is used in conjunction with high strength facings to produce lightweight, yet exceptionally stiff composite structure. Vinyl Foam is widely used and found in pleasure crafts, tanks, high performance boats, vehicles and many other high-strength, low-weight applications. Vinyl Foam grade is available in range of densities as standard sheets or fabricated to customer specification.

Material Properties		
Quality		R 60
Density ISO 845	kg/m ³ lb/ft ³	60 3.8
Compressive Strength ISO 844	MPa (+22 °C) psi (+72 °F)	0.8 116
Compressive Modulus ASTM D 1621 - B	MPa (+22 °C) psi (+72 °F)	77 11165
Tensile Strength ISO 1926	MPa (+22 °C) psi (+72 °F)	1.2 174
Tensile Modulus ISO 1926	MPa (+22 °C) psi (+72 °F)	40 5800
Shear Strength- ultimate ISO 1922	MPa (+22 °C) psi (+72 °F)	0.7 102
Shear Strength- yield ISO 1922	MPa (+22 °C) psi (+72 °F)	* *
Shear Modulus ISO 1922	MPa (+22 °C) psi (+72 °F)	23 3335
Shear Strain	%	13
Thermal Properties		
Thermal Conductivity ASTM C 518 + 10 °C	W/m °C Btu in/ft ² h °F	0.024 0.160
Water Absorption ASTM C 272	kg/m ² lb/ft ²	0.072 0.015
Water Vapor Transmission ISO 1663	g/m ² x 24 hours oz/ft ² x 24 hours	6.6 0.022
Specific Heat ASTM E 1269	kJ/kg °C Btu/lb °F	1.80 0.423
R-Value Based on + 10 °C K factor	12.7 mm / 0.5 in 25.4 mm / 1.0 in 50.8 mm / 2.0 in	3.0 6.0 12.0

*data not yet available

Continuous operating temperature range:	-200°C to +70°C (-325°F to 160°F)
Maximum processing temperature:	-80°C(+176°F)
Coefficient of linear expansion (ASTM-D-696):	$35 \times 10^{-6} / ^\circ\text{C}$ ($2 \times 10^{-5} / ^\circ\text{F}$)
Poissons ration:	0.32
Density Tolerance:	-10% / +15%