

Thermaflex® Polyolefin Foam Insulation

Chemical resistance

Valid for the following Product groups:

ThermaSmart Marine 4.0

External aluminum layer is chemically resistant in contact with substances in the pH range 4 to 9. It's reactive towards substances of high acidity or alkalinity, halogens, halogenated hydrocarbons.

Thermaflex polyolefin foam has a very good compatibility rating with most chemicals and is resistant to strong acids and bases, as well as gentle oxidants and reducing agents:

- Excellent resistance (no attack/no chemical reaction) to dilute and concentrated acids, alcohols, bases and esters
- Good resistance (minor attack/very low chemical reactivity) to aldehydes, ketones and vegetable oils
- Limited resistance (moderate attack/significant chemical reaction, suitable for short-term use only) to aliphatic and aromatic hydrocarbons, mineral oils, strong oxidizing agents (like nitric acid, fuming sulfuric acid), and halogens
- Poor resistance and not recommended for use with halogenated hydrocarbons.

We emphasize, that thickness, stressed areas, and processing conditions are factors that also affect the polyolefin foam's final resistance. Therefore, the only way to estimate the final product resistance is simulating the real situation, inspecting visually and through tests of mechanical resistance the material after exposure to chemical products. The tests can be speed up through the exposition to more severe conditions such as low and high temperatures.

For detailed list of chemicals and foam resistance towards them, please contact:
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Disclaimer

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