



Plasti-Fab's EPS products are manufactured to the highest standards. Our expertise in making EPS rigid foam insulation extends from molecules to municipalities.

What you need to know about

EPS vs. XPS

EPS is the acronym for expanded polystyrene, which is a thermoplastic rigid foam material made from polystyrene beads. XPS is the acronym for extruded polystyrene, which is produced from solid polystyrene crystals.

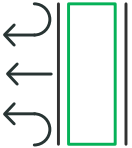



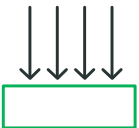

EPS has the **best price** per inch of R-Value and the R-Value won't diminish over time, making Plasti-Fab's EPS solutions more cost-effective than other insulation products, including XPS.

Our EPS products are GREENGUARD certified, have superior material properties that boost energy efficiency, and have a lifetime **Global Warming Potential (GWP) that is 31 times less than XPS.**

Plasti-Fab manufactures its own resin and turns the resin into rigid foam products. Technical data gathered throughout the vertically integrated manufacturing process is used to develop CCMC-listed products and applications, support ASTM standards development, and drive research and development. These efforts are supported by our in-house SCC-accredited technical centre.

Which should you choose?

Key considerations:

	EPS	XPS
 <p>R-value</p>	Product R-value ranges from R3.75 to R4.7 (GPS) per inch	Product R-value is R5 per inch
 <p>Long-term Thermal Resistance (LTTR)</p>	Not applicable (won't lose R-value over time)	Loss can be up to 84.5% of R-Value over the life of the product.***
 <p>Environmental Impact</p>	*Global Warming Impact 73% Less than XPS at 2.79 kg CO ₂	Global Warming Impact of 87 kg CO ₂ **
 <p>Water Absorption</p>	Dries over time to help maintain R-Value	0.7% by volume, which further reduces R-value**
 <p>Compressive Resistance</p>	10 to 60 psi available to suit application	10 to 60 psi available, specified at a higher cost
 <p>Dimensions Available</p>	Standard and Custom Cuts Available	Supplied in 2' or 4' widths and maximum 4" thick

LTTR and why it matters

LTTR stands for Long-Term Thermal Resistance. It is used to predict the R-value for cellular plastic insulations that are manufactured with the intent to retain a blowing agent (other than air) for a period longer than 180 days and is intended to represent the R-value after five years of in situ aging. Certain types of insulation, like XPS, lose R-value over the life of the product, making it necessary for the manufacturer to provide information about the expected future R-value.

LTTR does not apply to EPS because it isn't manufactured with the intent to retain a blowing agent and, due to its closed-cell nature, there is no loss of R-value over time.

EPS is a lightweight, rigid, closed-cell foam made from polystyrene. It is commonly used for insulation in construction and civil infrastructure projects. XPS is a rigid, closed-cell foam made from polystyrene. It is commonly used for insulation in construction and civil infrastructure projects. Both EPS and XPS are known for their high R-value per inch and long-term thermal resistance.



Plasti-Fab helps create lasting communities by supplying Expanded Polystyrene (EPS) products to construction and civil infrastructure projects. As the only vertically-integrated EPS company in North America, we are leading the industry with solutions that are healthy for people, communities, and the planet.

www.plastifab.com