



## Technical Data: EPS (Expanded Polystyrene)

EPS isn't just foam insulation, it's an innovative building material that lends to the design and structural integrity of many building projects. Since the 1950's, EPS has been recognized as a mainstream insulation material, but over the past decade new applications using EPS have exploded, and EPS now serves as a powerful design element. Polycore Canada Inc. utilizes a Type I EPS in its standard line of building systems, product sourced for our operation from EPS Molders Inc. of Edmonton Alberta.

### Thermal Values of EPS

EPS insulation can considerably reduce heating and cooling costs in buildings. Its uniform, closed cellular structure is highly resistant to heat flow and it also offers a stable R-value over the life of a structure. When used in typical applications, its properties as a rigid insulation prevent the thermal siphoning that can cause other insulation methods to under perform their ratings. Whenever primary design considerations include energy efficiency and cost effectiveness, EPS is the insulation of choice.

Note: The highlighted portion of the table below indicates the EPS product used by Polycore Canada in its Polycore building systems products

Test Temperature	Type I	Type VIII	Type II	Type IX
25	4.35	4.54	4.76	5.00
40	4.17	4.25	4.55	4.76
75	3.85	3.92	4.17	4.35

Test Temperature	Type I	Type VIII	Type II	Type IX
25	0.23	0.22	0.21	0.20
40	0.24	0.235	0.22	0.21
75	0.26	0.255	0.24	0.23

# POLY core

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## Environmental Facts about EPS

- **No CFCs** - EPS has never been made with any CFC, HCFC, or HFC gases. CFCs have been shown to be harmful to the earth's ozone layer.
- **Landfill Safe** - EPS is inert and stable. It will not leach out toxic chemicals, heavy metals or create dangerous decomposition gases such as methane, a "greenhouse" type gas. In landfills, EPS helps to keep the ground stable, important when the area is reclaimed for development.
- **Waste to Energy Safe** - EPS provides a clean source for WTE incineration systems. The simple chemical make-up of EPS is carbon and hydrogen, elements found in wood and other organic materials. EPS ash is therefore non-toxic - no unsafe chemicals or heavy metals are produced when burned as a fuel.
- **Recycling** - EPS is 100 percent recyclable, and can be recycled in various ways. The rigid product can be mechanically broken apart, making a lightweight, granular product that has many uses. EPS is also thermally processed to make a resin that is used as a raw material in the manufacture of a number of valuable products for use in homes, schools and offices. Both recycling methods are used by EPS Molders Inc. and Polycore Canada Inc. to ensure that no waste from production ends up in our landfills.

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