RV Insulation
Expanded Polystyrene

ACH Foam Technologies
Leading the Industry in EPS Manufacturing
ACH Foam Technologies Recreational Vehicle Expanded Polystyrene (EPS) can be easily cut to fit sidewalls, roofs and floors of RVs. Excellent surface bonding for lamination creates an envelope around the RV. EPS cores have fewer gaps resulting in substantially reduced heat transfer than with conventional stud construction.

Recreational Vehicle EPS is available in a variety of sizes, thicknesses and densities. Fabricated CNC and custom molded parts are available upon request. State-of-the-art EPS technology assures you will receive a superior product engineered with precision accuracy for long-term performance.

Strict manufacturing specifications, quality control and shorter shipping distances are reasons our customers count on ACH for RV Insulation year-after-year. ISO 9001 Certified (Wisconsin & Iowa). Recreational Vehicle EPS is recyclable and environmentally friendly. It contains no CFCs, HCFCs, HFCs or formaldehyde and comes with a 50-Year Thermal Warranty.

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**EPS Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Type XI</th>
<th>Type I</th>
<th>Type VIII</th>
<th>Type II</th>
<th>Type IX</th>
<th>Type XIV</th>
<th>Type XV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Density</td>
<td>lb/ft²</td>
<td>kg/m³</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>0.75 (12)</td>
<td>1.00 (16)</td>
<td>1.25 (20)</td>
<td>1.50 (24)</td>
<td>2.00 (32)</td>
<td>2.50 (40)</td>
<td>3.00 (48)</td>
</tr>
<tr>
<td>Density¹, min.</td>
<td>lb/ft³</td>
<td>kg/m³</td>
<td></td>
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<tr>
<td></td>
<td>0.70 (12)</td>
<td>0.90 (15)</td>
<td>1.15 (18)</td>
<td>1.35 (22)</td>
<td>1.80 (29)</td>
<td>2.40 (38)</td>
<td>2.85 (46)</td>
</tr>
<tr>
<td>Design Thermal Resistance per 1.0 in. thickness</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>75ºF</td>
<td>3.22 (0.57)</td>
<td>3.85 (0.68)</td>
<td>3.92 (0.69)</td>
<td>4.17 (0.73)</td>
<td>4.35 (0.84)</td>
<td>4.35 (0.77)</td>
<td>4.45 (0.78)</td>
</tr>
<tr>
<td>40ºF</td>
<td>3.43 (0.60)</td>
<td>4.17 (0.73)</td>
<td>4.25 (0.75)</td>
<td>4.55 (0.80)</td>
<td>4.76 (0.84)</td>
<td>4.76 (0.84)</td>
<td>4.85 (0.85)</td>
</tr>
<tr>
<td>Thermal Resistance¹, min per 1.0 in. thickness</td>
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<tr>
<td>75ºF</td>
<td>3.10 (0.55)</td>
<td>3.60 (0.63)</td>
<td>3.80 (0.67)</td>
<td>4.00 (0.70)</td>
<td>4.20 (0.74)</td>
<td>4.20 (0.74)</td>
<td>4.30 (0.76)</td>
</tr>
<tr>
<td>40ºF</td>
<td>3.30 (0.58)</td>
<td>4.00 (0.70)</td>
<td>4.20 (0.74)</td>
<td>4.40 (0.77)</td>
<td>4.60 (0.81)</td>
<td>4.60 (0.81)</td>
<td>4.70 (0.83)</td>
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<tr>
<td>Compressive Strength¹ @ 10% deformation, min.</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>psi</td>
<td>5.0 (35)</td>
<td>10.0 (69)</td>
<td>13.0 (90)</td>
<td>15.0 (104)</td>
<td>25.0 (173)</td>
<td>40.0 (256)</td>
<td>60.0 (414)</td>
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<tr>
<td>Flexural Strength, min.</td>
<td>psi (kPa)</td>
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<tr>
<td></td>
<td>10.0 (69)</td>
<td>25.0 (173)</td>
<td>30.0 (208)</td>
<td>35.0 (242)</td>
<td>50.0 (345)</td>
<td>60.0 (414)</td>
<td>75.0 (517)</td>
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<tr>
<td>Water Vapor Permeance¹ of 1.0 in. thickness, max.</td>
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<tr>
<td>Water Absorption by total immersion, max., volume %</td>
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<tr>
<td>Oxygen Index¹, min., volume %</td>
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<tr>
<td>Flame Spread¹</td>
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</table>

¹See ASTM C 578 Standard Specification for complete information.
²See UL Certificate AFM-1 available from ACH Foam Technologies.
³EPS has a smoke developed index of 150-300 when tested in accordance with ASTM E84/UL 723 for densities from 0.7 - 2.0 lb/ft³. Contact ACH Foam Technologies for more information.

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**Resource Efficient**

EPS manufacturing uses little energy and creates little pollution. Steam is a component of the Expanded Polystyrene (EPS) manufacturing process. The water from this process is collected and re-used many times. Additionally, only 0.1% of total oil consumption is used to manufacture EPS.

**Made With Recycled Material**

Scrap EPS generated during manufacturing is ground and incorporated into new EPS products. EPS is recyclable and can be turned into new expanded polystyrene (EPS) products or thermally processed into a resin to make other products such as garden furniture, coat hangers and single use cameras.

**Environmentally Friendly**

EPS has never contained CFC (chlorofluorocarbon), HCFC (hydrochlorofluorocarbon), or formaldehyde which are harmful to the earth’s ozone. EPS is inert and stable and does not produce methane gas or contaminating leachates.

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**OEM**

- More R-Value for Less Money
- Durable & Lightweight
- Unlimited Design Potential
- Sanded EPS Available
- High R-Value Retention
- ISO 9001 Certified (Wisconsin & Iowa)
- Shorter Shipping Distances
- UL Classified
- Flatbed Delivery for Quick & Efficient Unloading
- Weather Resistant Units for Space Saving Outdoor Storage
- Environmentally Friendly & Recycleable

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**Benefits**

- • More R-Value for Less Money
- • Durable & Lightweight
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