



Cert. AFM-1

The manufacturer whose name appears below is qualified under the Classification Service of UL LLC, as furnishing FOAMED PLASTIC in the form of POLYSTYRENE BOARDS CLASSIFIED AS SHOWN BELOW. This manufacturer is therefore authorized to issue this certificate for the bulk shipment of material described below as its representation that such material is manufactured in compliance with the requirements established by UL LLC for this class of product.

UL File: R11812UL

Evaluation Report Number: ER11812-01

Material: Expanded Polystyrene (Foam-Control EPS)

Manufactured by: ACH Foam Technologies, LLC.

Plant ID: U-37

- 1) FOAMED PLASTICS
70P8
SURFACE BURNING CHARACTERISTICS
- 1/2 - 5in. Max. Thick⁺
- | | |
|-----------------|------------------|
| FLAME SPREAD | 20 [#] |
| SMOKE DEVELOPED | 300 [#] |

+ -Installed in a thickness, or stored in an effective, as indicated, for a density of 1.0 to 2.0 lb/ft³
-Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread index of 180 and smoke developed index of over 500.

- 2) FOAMED PLASTIC FOR ROOFING SYSTEMS AS TO EXTERNAL FIRE EXPOSURE ONLY. SEE UL ROOFING MATERIALS AND SYSTEMS DIRECTORY

- 3) FOAMED PLASTIC FOR ROOFING SYSTEMS AS TO UPLIFT RESISTANCE. SEE UL ROOFING MATERIALS AND SYSTEMS DIRECTORY.

- 5) POLYSTYRENE THERMAL INSULATION, RIGID CELLULAR
TYPE I, TYPE VIII, TYPE II, and TYPE IX
IN ACCORDANCE WITH ASTM C578

| | TYPE I | TYPE VII | TYPE II | TYPE IX |
|--|--------|----------|---------|---------|
| Density, min (lbs/ft ³) | 0.90 | 1.15 | 1.35 | 1.8 |
| Compressive Resistance, min. (psi) | 10.0 | 13.0 | 15.0 | 25.0 |
| Flexural Strength, min. (psi) | 25.0 | 30.0 | 35.0 | 50.0 |
| Thermal Resistance 1 in. @ 75°F, min. (°F * ft ² * h/Btu) | 3.6 | 3.8 | 4.0 | 4.2 |
| Water Vapor Permeance, max (perms) | 5.0 | 3.5 | 3.5 | 2.0 |
| Water Absorption, max (vol. %) | 4.0 | 3.0 | 3.0 | 2.0 |
| Dimensional Stability, max. (%) | 2.0 | 2.0 | 2.0 | 2.0 |
| Oxygen Index, min. (vol. %) | 24.0 | 24.0 | 24.0 | 24.0 |

Unlimited Thickness

- 4) FOAMED PLASTIC AS ROOF DECK CONSTRUCTION MATERIAL WITH RESISTANCE TO AN INTERNAL FIRE EXPOSURE ONLY. FOR USE IN CONSTRUCTION NO(S). 219, 237, 458 SEE UL ROOFING MATERIALS AND SYSTEMS DIRECTORY

- 6) CELLULAR POLYSTYRENE (EIFS) IN THE FORM OF BLOCKS OR BOARDS, IN ACCORDANCE WITH ANSI/ASTM E2430

Manufacturer's statement: "These numerical flame spread and smoke ratings are not intended to reflect hazards presented by this material under actual fire conditions."