



# STYROFOAM™ EPF EXTRUDED POLYSTYRENE FOAM INSULATION

## TECHNICAL DATA SHEET

1-888-824-4455 | [info@true-seal.com](mailto:info@true-seal.com) | [www.true-seal.com](http://www.true-seal.com)

### DESCRIPTION:

STYROFOAM™ EPF Insulation is an extruded polystyrene foam insulation designed to provide higher compressive strength and additional membrane support for conventional low slope roof applications.

### TECHNICAL DATA APPLICABLE STANDARDS

STYROFOAM™ EPF Insulation meets IBC/IRC requirements for foam plastic insulation. Applicable ASTM standards include:

- C518 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- D1621 - Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- E96 - Standard Test Methods for Water Vapor Transmission of Materials
- D696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer
- D2842 - Standard Test Method for Water Absorption of Rigid Cellular Plastics
- C203 - Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
- C272 - Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions
- D2126 - Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
- E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
- CAN/ULC S701, Type 3

### ENVIRONMENTAL DATA

STYROFOAM™ EPF Insulation is hydrochlorofluorocarbon (HCFC) free with zero ozone-depletion potential. STYROFOAM™ EPF Insulation is reusable in many applications.

### FIRE PROTECTION

STYROFOAM™ EPF Insulation is combustible; protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult MSDS, call True Seal at 1-888-824-4455 or contact your local building inspector.

### INSTALLATION

STYROFOAM™ EPF Insulation boards can be installed over the old roof's entire surface - on top of the existing membrane. Install ballasted or light-colored mechanically attached sheet membrane on top of STYROFOAM™ EPF Insulation. Contact a local True Seal™ representative for more specific instruction

### AVAILABILITY

STYROFOAM™ EPF Insulation is distributed through an extensive network. For product availability or for the name of your local True Seal™ sales representative, call: 1-888-824-4455

### Code Compliances

- Factory Mutual Approved
- Meets IBC/IRC requirements for foam plastic insulation; see ICC-ES ESR-2142
- Underwriters Laboratories, Inc (UL) Classified, see Classification Certificate D369
- CCMC-Evaluation listing 11420-L

### TECHNICAL SERVICES

True Seal™ can provide technical information to help address questions about using STYROFOAM™ EPF Insulation.

Technical personnel are available to assist with any insulation project. For technical assistance, call: 1-888-824-4455

**TABLE 1: PHYSICAL PROPERTIES OF STYROFOAM™ TRUE EPF INSULATION**

PROPERTY AND TEST METHOD	VALUE
Thermal Resistance(1) at 3/8" (9.5 mm), ASTM C518 @ 75°F (24°C) mean temp., ft <sup>2</sup> · h · °F/Btu (m <sup>2</sup> · °C/W), R-value (RSI), min.	5.0
Compressive Strength(2), ASTM D1621, psi (kPa), min.	25
Water Absorption, ASTM C272 (ASTM D2842), % by volume, max.	0.3
Water Vapor Permeance(3), ASTM E96, perm. max.	1.5
Maximum Operating Temperature, °F (°C)	165 (74)
Coefficient of Linear Thermal Expansion, ASTM D696, in/in·°F	3.5 x 10 <sup>-5</sup>
Flexural Strength, ASTM C203, psi, min.	50
Dimensional Stability, ASTM D2126 / CAN/ULC S701 % linear change, max.	2.0
Flame Spread(4), ASTM E84	15
Smoke Developed, ASTM E84(4)	165