

## Bora-Foam®

Bora-Foam (film-faced expanded polystyrene) is a cost-effective, durable, and energy efficient solution for all types of insulation application. Typical applications for Bora-Foam include crawl spaces, basements, under concrete slabs and other below-grade areas.

### Proven to meet - or exceed - building codes.

Bora-Foam is manufactured to Quality Control Program standards monitored by Underwriters Laboratories Inc. and recognized by national building codes. Bora-Foam meets ASTM C578, "Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation".



**Bora-Foam uses foam control with Perform Guard® EPS has passed the Corner Room Burn Test and therefore does not require an additional thermal barrier when installed in a crawl space in accordance with ICC ESR 1006, Section 4.2.2 and UL ER 11812-01, Section 6.2.3.**

### Advantages

- Saves Energy
- No long-term R-value loss or thermal drift



Collection



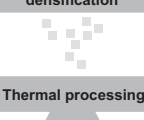
Granulation



Storage



Compression or thermal densification



Thermal processing



New product from

- Superior moisture resistance
- Termite resistant
- Retains R-value even with moisture exposure
- Retains R-value after freeze-thaw cycling

### Bora-Foam always comes in green.

Bora-Foam helps make your insulation projects environmentally friendly.

- Lower energy consumption reduces carbon dioxide emissions
- Is inert and stable
- Has never contained CFC, HCFC or HFC, all of which are harmful to the earth's ozone layer

### Recycling.

Bora-Foam is 100% recyclable. It can be ground into granules and reincorporated into new Bora-Foam products. Or it can be thermally processed into a resin that's used to manufacture other new products.

Bora-Foam Properties			
Nominal Density ASTM C303		lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	1.00 (16)
Density, min. ASTM C303		lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	0.90 (1.5)
R-value <sup>1-3</sup> Thermal Resistance @ 2.5" thickness ASTM C518	25°F	°F.ft <sup>2</sup> .h/Btu (°K.m <sup>2</sup> /W)	11.9 (1.93)
	40°F	°F.ft <sup>2</sup> .h/Btu (°K.m <sup>2</sup> /W)	11.4 (1.83)
	75°F	°F.ft <sup>2</sup> .h/Btu (°K.m <sup>2</sup> /W)	11.0 (1.70)
k-value <sup>1</sup> Thermal Conductivity ASTM C518	25°F	Btu.in/°F.ft <sup>2</sup> .h (W/°K.m)	0.23 (0.033)
	40°F	Btu.in/°F.ft <sup>2</sup> .h (W/°K.m)	0.24 (0.035)
	75°F	Btu.in/°F.ft <sup>2</sup> .h (W/°K.m)	0.26 (0.037)
Compressive Strength @ 10% deformation, min. ASTM D1621		psi (kPa)	10 (69)
Flexural Strength, min. ASTM C203, Procedure B		psi (kPa)	25 (173)
Water Vapor Permeance max., perm ASTM E96			0.08
Flame Spread Index <sup>2</sup> Smoke Developed Index <sup>2</sup> ASTM E84/UL723			20 150-300
Maximum recommended long-term exposure temperature			165°F (74°C)

<sup>1</sup> Please refer to ASTM C578 for minimum R-values.

<sup>2</sup> Please refer to UL certificate for complete information.

<sup>3</sup> Includes air-films each.