



## Voids

### Insulfoam EPS Concrete Blockouts

Insulfoam EPS is the right alternative when it comes to concrete blockouts. EPS is truly an amazing product with unmatched versatility and performance. Take advantage of that versatility when using EPS as a concrete blockout in the production of concrete foundations, walls, bridges or road overpasses, and much more. No other alternative product provides the advantages and benefits of EPS at such a cost-competitive price

- Very lightweight, durable, and easy to handle
- Cost effective when compared to other alternatives
- Cuts easily to any shape, size, or thickness
- Does not emit chemicals or gasses into the concrete that can cause surface cracking
- Provides high, long-term thermal protection
- Dimensionally stable
- Environmentally friendly, with no ozone depleting HCFC's



#### PHYSICAL PROPERTIES OF EXPANDED POLYSTYRENE

PROPERTY	ASTM Test	Type I	Type VIII	Type II	Type IX
TYPICAL TESTED R-Values for use in thermal resistance design calculations					
<b>R-Value*</b>	C177/C518	1.00	1.25	1.5	2.0
Nominal density lb/ft <sup>3</sup>	AT 40° F	4.17	4.25	4.55	4.76
Thermal Resistance Per 1.00 in. (25.4mm) thickness	AT 75° F	3.85	3.92	4.17	4.35
PHYSICAL REQUIREMENTS of RCPS Thermal Insulation Meeting ASTM C578 Minimum and Maximum allowable values					
<b>DENSITY</b> , minimum lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	C303/D 1622	0.9 (15)	1.15(18)	1.35 (22)	1.8 (29)
<b>THERMAL RESISTANCE</b>	C177/C518				
1.00 in (25.4mm) thickness	AT 40°F	4.0 (0.70)	4.2(0.74)	4.4 (0.77)	4.6 (0.81)
Minimum °F ft <sup>2</sup> /Btu (K m <sup>2</sup> /W)	AT 74°F	3.6 (0.63)	3.8 (0.68)	4.0 (0.70)	4.2 (0.74)
<b>COMPRESSIVE</b> resistance at yields or 10% deformation, whichever occurs first (173) (with skins intact), minimum psi (kPa).	C 165/D 1621	10.0 (69)	13.0 (90)	15.0 (104)	25.0
<b>FLEXURAL</b> strength, minimum psi (kPa) (345)	C 203	25.0 (173)	30.0 (201)	40.0 (276)	50.0
<b>WATER VAPOR</b> permeance of 1.00 inch (25.4mm) thickness max. per (ng/Pa s m <sup>2</sup> )	E 96	5.0 (287)	3.5 (201)	3.5 (201)	2.0 (115)
<b>WATER ABSORPTION</b> by total immersion Maximum volume %	C 272	4.0	3.0	3.0	2.0
<b>DIMENSIONAL STABILITY</b> (change in dimensions) maximum %	D 2126	2.0	2.0	2.0	2.0
<b>OXYGEN INDEX</b> , minimum %	D 2863	24.0	24.0	24.0	24.0

ASTM C 578 (Supersedes Federal Specification HH-1-52C)

\*Typical Testing R-Values are based on data provided by ARCO Chemical Co. BASF Corp. and Huntsman Chemical Company