



P.O. Box 406
 Conyers, GA 30012
 800-241-3634

GARAGE DOOR LINER

High Impact Polystyrene Laminated to
 Expanded Polystyrene

H.I.P. Features - Good environmental stress crack resistance, good paintability, UL Classification 94 HB, USP Class VI

H.I.P. Technical Data

| <i>PROPERTIES (1)</i> | <i>S.I. UNITS Mpa</i> | <i>TYPICAL VALUES (2) (S.I.)</i> | <i>ENGLISH UNITS</i> | <i>TYPICAL VALUES (2) (ENG.)</i> | <i>ASTM</i> |
|--|---------------------------|--|--------------------------|--|-------------|
| Tensile Strength Yield | MPa | 21 | psi | 3,000 | D638 |
| Elongation, Failure | % | 50 | % | 50 | D638 |
| Tensile Modulus | MPa | | psi x 10 ³ | | D638 |
| Flexural Strength @ 5% | MPa | 29 | psi | 4,200 | D790 |
| Flexural Modulus | MPa | 1,650 | psi x 10 ³ | 240 | D790 |
| Impact Strength, Notched Izod, 1/8" bar, 0.010" Notch Radius | J/m | 149 | ft-lb/in of notch | 2.8 | D256 |
| Melt Flow Rate, 200/5.0 | g/10 min | 3.0 | | | D1238 |
| Vicat Softening Temp. | °C | 100 | °F | 212 | D1525 |
| Heat Deflection Temp. 1.8 Mpa/264 psi | °C | 85 | °F | 185 | D648 |
| Specific Gravity | - | 1.04 | - | 1.04 | D792 |
| Linear Mold Shrinkage | mm/mm | 0.004-0.007 | in/in | 0.004-0.007 | D955 |

(1) Properties were determined on injection molded specimen at 23° C(73° F) and 50% R.H. unless otherwise specified.

(2) Typical values represent average laboratory value and are intended as guides only, not as specific specification limits.

EPS Features - Permanent R-Value, dimensionally stable, sound deadening, outstanding resistance to moisture absorption. Standards Compliance - EPS insulation may be manufactured to meet or exceed the requirements of ASTM C578 and applicable building codes.

EPS Technical Data

| <i>PROPERTY</i> | <i>UNITS</i> | <i>ASTM TEST</i> | <i>TYPE 1</i> |
|--|-----------------------|------------------|---------------|
| Density | pcf, minimum | C303 | 0.90 |
| Thermal Resistance Values (R) | per inch thickness | C518 | |
| At 25F (-3.9 C) | | | 4.20 |
| At 40F (4.4 C) | | | 4.00 |
| At 75F (23.9 C) | | | 3.60 |
| Compressive Resistance 10% Deformation | psi, minimum | D1621 | 10 |
| Flexural Strength | psi, minimum | C203 | 25 |
| Water Vapor Permeability | perm-in., maximum | E96 | 5.0 |
| Water Absorption by Total Immersion | % by Vol Max | C272 | 4.0 |