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**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 <sup>3</sup>		D638
Flexural Strength @ 5%	MPa	29	psi	4,200	D790
Flexural Modulus	MPa	1,650	psi x 10 <sup>3</sup>	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