



cellofoam®

# HOLEY BOARD



## The High Performance Substrate for Insulating Lightweight Roof Deck Assemblies

- *Easy to Handle and Apply*
- *Low Thermal Conductivity*
- *Slope to Drain Capability*
- *Adaptability On Curved Surfaces*
- *Inorganic*
- *Varied Thicknesses Allow Single Layer Application*

**TYPICAL PHYSICAL PROPERTIES OF EPS INSULATION**  
**Specification Reference: ASTM-C578**

Property	Units	ASTM Test	Type I	Type VIII	Type II	Type IX	
<b>Density (Maximum)</b>	pcf		1.0	1.25	1.5	2.0	
<b>Density (Minimum)</b>	pcf	C303 or D1622	0.90	1.15	1.35	1.80	
<b>Thermal Conductivity</b>	at 40F	BTU/(hr.)	C177 or	0.24	0.235	0.22	0.21
<b>K Factor</b>	at 75F	(sq. ft.)(F/in.)	C518	0.26	0.255	0.24	0.23
<b>Thermal Resistance</b>	at 40F	per inch	-	4.17	4.25	4.55	4.76
<b>Values (R)*</b>	at 75F	thickness	-	3.85	3.92	4.17	4.35
<b>Strength Properties</b>							
Compressive 10% Deformation	psi	D1621	10-14	13-18	15-21	25-33	
Flexural	psi	C203	25-30	30-38	40-50	55-75	
Tensile	psi	D1623	16-20	17-21	18-22	23-27	
Shear	psi	D732	18-22	23-25	26-32	33-37	
Shear Modulus	psi	-	280-320	370-410	460-500	600-640	
Modulus of Elasticity	psi	-	180-220	250-310	320-360	460-500	
<b>Moisture Resistance</b>							
WVT	perm. in.	E96	2.0-5.0	1.5-3.5	1.0-3.5	0.6-2.0	
Absorption (vol.)	%	C272	less than 4.0	less than 3.0	less than 3.0	less than 2.0	
Capillarity	-	-	none	none	none	none	
<b>Coefficient of Thermal Expansion</b>	in./(in.)(F)	D696	0.000035	0.000035	0.000035	0.000035	
<b>Maximum Service Temperature</b>	° F	-					
Long Term			167	167	167	167	
Intermittent			180	180	180	180	
<b>Oxygen Index</b>	Minimum %	D2863	24.0	24.0	24.0	24.0	

\* 'R' means resistance to heat flow. The higher the 'R' value, the greater the insulating power.

**UL Listed, FM Approved**  
**ICC ESR-1820, BOCA, ICBO, SBCCI Code Recognized**  
**No CFC, HCFC or Formaldehyde**



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**WARNING:** This product is combustible and if exposed to a fire of sufficient heat and intensity may burn rapidly. It should not be left exposed or inadequately protected. Consult specific instructions for use accompanying this product.

The performance data herein reflects Cellofoam North America Inc's expectation based on tests conducted in accordance with recognized standard methods. The sale of these products shall be subject to the Terms and Conditions of Sale, INCLUDING those LIMITING WARRANTIES, as set forth in Cellofoam North America Inc's invoices. No agent, employee or representative of Cellofoam North America Inc or its subsidiary or affiliated companies is authorized to modify this disclaimer.