



## ASTM C578 Specification for Rigid, Cellular Polystyrene Thermal Insulation

			Density (pcf)						
Classification			Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV
Nominal Density			0.75	1.00	1.25	1.50	2.00	2.50	3.00
Density, min, lb/ft <sup>3</sup>			0.70	0.90	1.15	1.35	1.80	2.40	2.85
Property	Units	ASTM Test							
<b>Thermal Resistance</b> R Values (at 75°F)	per inch thickness	--	3.1	3.6	3.8	4.0	4.2	4.2	4.3
<b>Strength Properties</b> Compressive (10% def) Flexural	psi psi	D1621 C203	5 10	10 25	13 30	15 35	25 50	40 60	60 75
<b>Moisture Resistance</b> Absorption (vol.) Capillarity	% --	C272 --	4.0 none	4.0 none	3.0 none	3.0 none	2.0 none	2.0 none	2.0 none
<b>Coefficient of Thermal Expansion</b>	In./in. (F)	D696	0.000035	0.000035	0.000035	0.000035	0.000035	0.000035	0.000035
<b>Maximum Service Temperature</b> Long Term Intermittent	°F	--	167 180	167 180	167 180	167 180	167 180	167 180	167 180
<b>Oxygen Index</b>	%	D2863	24	24	24	24	24	24	24
<b>Dimensional Stability</b>	% change	C303	max. 2.0	max. 2.0	max. 2.0	max. 2.0	max. 2.0	max. 2.0	max. 2.0

96 Fourth Avenue  
Haskell, NJ 07420  
USA

Toll Free: 800.229.7161  
Office: 973.835.7161  
Fax: 973.835.2438

Email: [info@polymoldingllc.com](mailto:info@polymoldingllc.com)  
Web: [www.polymoldingllc.com](http://www.polymoldingllc.com)

