

FLAMETEC™ MATERIALS

TYPICAL PHYSICAL PROPERTIES	UNITS OF MEASURE	ASTM METHOD	FLAMETEC THERMAX XL PVC	FLAMETEC CLEANROOM PVC-C	FLAMETEC CP-7D	FLAMETEC CP-5	FLAMETEC KYTEC PVDF
Physical							
Density	g/cm ³	D 792	1.53	1.53	1.38	0.99	1.75-1.8
Water Absorption	%	D 570	0.10	0.03	-	0.01	0.04
Hardness	Shore D	D 2240	85	76	67	65	73-80
Cell Class	-	D 1784	12354	23445	-	-	-
Mechanical							
Tensile Strength @ Yield	psi	D 638	6,600	7,190	2,500	3,500	7,250 - 8,700
Tensile Modulus	psi	D 638	436,800	366,000	-	-	246,500 - 362,600
Notched Izod Impact	ft-lb/in	D 256	1.2	3.0	10.1	17	-
Flexural Strength @ Yield	psi	D 790	12,000	12,900	-	-	-
Flexural Modulus	psi	D 790	445,000	-	450,000	135,000	-
Thermal							
Heat Deflection Temp @ 66 psi / 264 psi	°F	D 648	166 / 159	190 / 173	248 @66psi	186 @66psi	293 / 230*
Vicat Softening Point	°F	D 1525	171	-	-	-	275 - 293
Coefficient of Linear Expansion	in/in/°F	D 696	3.4 x 10 ⁻⁵	3.3x10 ⁻⁵	-	6.5x10 ⁻⁵	7.8x10 ⁻⁵
Flammability							
FM Global (Factory Mutual)	FM-4910	-	Listed	Listed	Listed	-	Listed
Vertical Burn Test	UL-94**	-	V-0; 5-VA	V-0; 5-VA	V-0	V-0	V-0
Flame Spread Index	-	E-84	10	-	-	-	-

*: Heat Detection Temperature for PVDF is based on compression molded material

** : Meets UL 94 Testing Criteria

Physical properties of plastic sheeting are represented as 'Typical'. Information contained herein is considered accurate to the best of our knowledge. It is offered for your consideration and investigation, and is not to be construed as representation or warranty expressed or implied. Our warranties are limited to those expressly stated in formal contracts or in conditions of sale on our invoices and order acceptances. Conditions and methods of use may vary and are beyond the control of Vycom Corporation; therefore, Vycom Corporation disclaims any liability incurred as a result of the use of this product in accordance with the data contained in our physical property charts. No information herein shall be construed as an offer of indemnity for infringement or as a recommendation to use the products in such a manner as to infringe any patent, domestic or foreign. The 'Typical' properties of our plastic sheet cannot be automatically used when engineering finished components, and the fabricator or end user is responsible for insuring the suitability of our products for their specific application or end use!