

## FLAMETEC™ MATERIALS

TYPICAL PHYSICAL PROPERTIES	UNITS OF MEASURE	ASTM METHOD	FLAMETEC THERMAX	FLAMETEC CLEANROOM PVC-C	FLAMETEC CP-7D	FLAMETEC CP-5	FLAMETEC KYTEC PVDF
<b>Physical</b>							
Density	g/cm <sup>3</sup>	D 792	1.42	1.53	1.38	0.99	1.75-1.8
Water Absorption	%	D 570	0.15 - 0.30	0.03	-	0.01	0.04
Hardness	Shore D	D 2240	89	76	67	65	73-80
Cell Class	-	D 1784	13464-B	23556-B	-	-	-
<b>Mechanical</b>							
Tensile Strength @ Yield	psi	D 638	8,525	7,190	2,500	3,500	7,250 - 8,700
Tensile Modulus	psi	D 638	473,000	366,000	-	-	246,500 - 362,600
Notched Izod Impact	ft-lb/in	D 256	1.82	3.0	10.1	17	-
Flexural Strength @ Yield	psi	D 790	12,800	12,900	-	-	-
Flexural Modulus	psi	D 790	481,000	-	450,000	135,000	-
<b>Thermal</b>							
Heat Deflection Temp @ 66psi / 264 psi	°F	D 648	160 / 144	190 / 173	248 @66psi	186 @66psi	293 / 230*
Vicat Softening Point	°F	D 1525	-	-	-	-	275 - 293
Coefficient of Linear Expansion	in/in/°F	D 696	3.2x10 <sup>-5</sup>	3.3x10 <sup>-5</sup>	-	6.5x10 <sup>-5</sup>	10.0x10 <sup>-5</sup>
<b>Flammability</b>							
FM Global (Factory Mutual)	FM-4910	-	Listed	Listed	Listed	-	Listed
Vertical Burn Test	UL-94	-	V-0	5-VA	-	V-0	V-0
Flame Spread Index	E-84	-	20	-	-	-	-

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

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