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/cm³	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	3.4×10^{-5}	3.3×10^{-5}	-	6.5×10^{-5}	7.8×10^{-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 DetectionTemperature for PVDF is based on compression molded material
**: Meets UL 94 Testing Criteria