FLAMETEC FIRE SAFE MATERIALS

VYCOM OLEFIN AND PVC SOLUTIONS

FLAMETEC MATERIAL COMPARISON

TYPICAL PHYSICAL PROPERTIES	ASTM	UNITS	FLAMETEC THERMAX PVC	FLAMETEC CLEANROOM PVC-C
Physical				
Specific Gravity	D 792	g/cm³	1.42	1.50
Water Absorption	D 570	%	0.15 - 0.30	0.03
Shore D Hardness	D 2240	-	89	85
Cell Class	D 1784	-	13464-B	23556-B
Mechanical				
Tensile Strength	D 638	psi	8,525	7,600
Flexural Modulus	D 790	psi	481,000	400,000
Izod Impact	D 256	ft-lb/in.	1.82	4.0
Thermal				
Vicat Softening Point	D 1525	°F	181	261
Heat Deflection Temp	D 648	°F	176	217
Coefficient of Expansion	D 696	in/in/°F	3.2×10^{-5}	3.3×10^{-5}
Flammability				
Vertical Burn	UL 94	-	V-0	5-VA
FM Global (Factory Mutual)	FM 4910	-	Listed	Listed

FLAMETEC THERMAX

Key Material Benefits

- Easy to fabricate
- Surpasses standard PVC temperature resistance
- Welds easily as shown in DVS Welding Guidelines
- FM 4910 Listed

Key Material Advantages

- Higher heat deflection temperature
- Optimal color and aesthetics
- PVC maintains its mechanical properties at service temperatures up to 170°F

FLAMETEC CLEANROOM PVC-C

Key Material Benefits

- Superior chemical resistance at higher service temperatures
- Easy to fabricate and weld
- Superior strength & flexibility
- Welds easily as shown in DVS Welding Guidelines

Key Material Advantages

- Highest flame and smoke properties for FM 4910 materials
- PVC-C maintains its mechanical properties at service temperatures up to 200°F
- True CPVC material

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