

**TYPICAL PROPERTIES OF PVC/ACRYLIC
ALLOY EXTRUDED SHEET**

ASTM Test	Property	
PHYSICAL		
D792	Specific gravity	1.33-1.37
MECHANICAL		
D638	Tensile strength ($\times 10^3$ psi)	6.1
D638	Elongation at break (%)	160
D790	Max flexural strength ($\times 10^3$ psi)	9.3
D790	Modulus of elasticity ($\times 10^3$ psi)	335
D785	Hardness, Rockwell R	94
D256	Notched Izod impact resistance (73°F ft-lb/in)	18
THERMAL		
D648	Heat deflection temperature (annealed, 0°F) At 264 psi	173
UL STD 94	Flammability rating	V-O-5V
FAR 25.853(a)	FAA vertical burn, 60 s	pass
FAR 25.853(a) and (b)	FAA vertical burn, 12 s	pass
E162	Radiant panel flame spread index (Is)	<35
MVSS 302	Motor vehical safety standard 302	pass
ELECTRICAL		
D149	Dielectric strength (V/mil)	>430
D150	Dielectric constant At 1 kHz	3.70
D150	Dissipation factor At 1 kHz	0.074
D275	Surface resistivity ($\times 10^{14}$)	2.26
D495	Arc resistance (s)	80

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ISO Test	Property	
PHYSICAL		
ISO1183	Specific gravity	1.33-1.37
MECHANICAL		
ISO527	Tensile strength (MPa)	42.06
ISO62	Elongation at break (%)	160
ISO178	Max flexural strength (MPa)	64.12
ISO178	Modulus of elasticity (10^3 MPa)	2.31
ISO2039	Hardness, Rockwell R	94
ISO180	Notched Izod impact strength (23°C J/m)	961
THERMAL		
ISO75	Deflection temperature (annealed, -18°C) At 1.82 MPa	78
UL 94	Flammability rating	V-O-5V
FAR 25.853(a)	FAA vertical burn, 60 s	pass
FAR 25.853(a) and (b)	FAA vertical burn, 12 s	pass
E162	Radiant panel flame spread index (Is)	<35
MVSS 302	Motor vehical safety standard 302	pass
ELECTRICAL		
ISO243	Dielectric strength (kV/mm)	>16.93
IEC250	Dielectric constant At 1 kHz	3.70
IEC250	Dissipation factor At 1 kHz	0.074
IEC93	Surface resistivity ($\times 10^{14}$)	2.26
D495	Arc resistance (s)	80