

SymoniteHD PVDF

Specification	Value	Unit	Tested
General			
Available thickness range:	3 – 25	mm	
Standard thickness:	4	mm	
Standard panel width:	1220	mm	
Available panel lengths:	1850 – 2850	mm (minimum order quantities apply)	
Standard panel lengths:	2150, 2500, 2850	mm	
Mass:	1680 (approx.)	kg/m ³	
Available surface quality:	Good one side Good two sides		
Standard surface quality:	Good one side		
Use:	Internal, External		
Aluminium			
Thickness:	0.5	mm	
Tensile Strength	120	Mpa	
Yield strength	0.2% offset	Mpa	
Elongation	≥ 12%		
Hardness:	36	Brinell	
Acoustic			
Sound Transmission Class:	29	dB	4mm
Thermal			
Expansion:	22 x 10 ⁻⁶	mm/mm/°C	4mm
Resistance (R Value):	0.013	m ² K/W	4mm
Appearance			
Appearance:	AS2924 & AS2925.2		
Gloss level:	25% ± 5%	(colour dependent)	
Durability:	No change in bond strength after 1000 hours of salt spray Exposure in accordance with ATSMB117-90		
Physical and Mechanical Properties			
Minimum radius	600	mm	4mm
	850	mm	6mm
Modulus of rupture	190	Mpa	4mm
Bending stiffness	245	Nmm ² /mm (EI) x 1000	4mm
Ultimate shear resistance	11.5	Mpa (in plane of core)	4mm
It is recommended that the tensile stress in a panel under maximum wind load should not exceed 71Mpa			
Plate bending stiffness	236,000	Nmm ² /mm	4mm
Peak exposure temperature	140	°C	4mm
Fire performance			
Early fire hazard properties	0, 0, 0, 0-1	AS1530.3	3-10mm
Method of test for heat and smoke release rates	Group 3	AS3837.1998	4 mm
Designation	P	BS476.5	4-5mm
Fire propagation Index	0.7	BS476.6	4-5mm
Spread of flame	Class 1	BS476.7	4-5mm