



IB Roof Systems PVC/CPA Roofing Membranes: Typical Properties

Property	Method	Requirement	50 Mil	60 mil	80 mil
Thickness [in]	ASTM D751	0.045	0.05 (+/- 10%)	0.06 (+/- 10%)	0.080 (+/- 10%)
Breaking Strength [lbf/in.]					
MD	ASTM D751	200	370	465	540
XMD	A-Grab Method	200	310	400	480
Elongation @ Break [%]					
MD	ASTM D751	15 ^A	40	40	40
XMD	A-Grab Method	15 ^A	38	38	38
Retention of Properties after Heat Ageing:					
Breaking Strength [%]	ASTM D3045	90%	Pass	Pass	Pass
Elongation @ Break [%]	80°C for 56 days	Original	Pass	Pass	Pass
Tearing Strength [%]			Pass	Pass	Pass
Tearing Strength [lbf]	ASTM D751				
MD	B-Tongue Tear	45	72	73	74
XMD	Method	45	49	60	70
Low Temperature Bend [°C]	ASTM D2136				
	-40°C	Pass	Pass	Pass	Pass
Accelerated Weathering					
Cracking (7x Magnification)	ASTM G53	None	None	None	None
Crazing (7x Magnification)	5,000 h min	None	None	None	None
Discoloration (Visual)		Negligible	Negligible	Negligible	Negligible
Linear Dimensional Change [%]	ASTM D1204				
MD	80°C for 56 days for	0.5	-0.4	-0.4	-0.4
XMD	6 hours	0.5	0.0	0.0	0.0
Change in Weight After Immersion in Water [%]	ASTM D570				
	70°C for 168 hours	3	1.5	1.2	1.2
Static Puncture Resistance	ASTM D5602				
	33 lbf @ 23°C	Pass	Pass	Pass	Pass
Dynamic Puncture Resistance	ASTM 5635				
	20J @ 23°C	Pass	Pass	Pass	Pass
Seam Strength					
	D751	75%	100%	100%	100%
Warranty (years non-prorated)					
			15 Material	20 Material	25 Material

^A For reinforcing fabric only; elongation of PVC material shall be 250% MD and 220% XMD

The table presents typical properties of IB Roof Systems PVC roofing membranes. Requirements are taken from ASTM D4434-96.

Note: As well as ASTM D4434-96, IB Roof Systems PVC roofing membranes meet the following standards:

1. Factory Mutual 4470
2. UL/ULC Class A
3. CAN/CGSB 37.54-95