

PVDF & FEVE Comparison

Performance Testing	Test	Fluoropon Pure 70% PVDF	Illumipon FEVE
Industry Specifications Compliance	AAMA 2605 – Voluntary Specification, Performance Requirements and Test Procedures for High Performing Organic Coatings on Architectural Aluminum Extrusions and Panels	Meets or exceeds	Meets or exceeds
Warranty Length		20 years	20 years
Substrates		Pretreated & pre-fabricated aluminum panels and extrusions	Pretreated aluminum panels and extrusions
Physical Testing			
Falling Sand Abrasion	ASTM D 968	65 liters (+/-10) of sand per mill of coating	80 liters (+/-10) of sand per mill of coating
Film Adhesion	ASTM D 3359	No removal of film under tape in the cross-hatched area (dry, wet, boiling water)	Meets 4B classification (less than 5% loss)(dry, wet, boiling water)
Surface Burning Characteristics	ASTM E 84	Flame Spread Index: Class A. Smoke Developed Index: Class A	Flame Spread Index: Class A. Smoke Developed Index: Class A
Humidity Resistance	ASTM D 2247: 100% RH at 100° F for 2,000 hours 100% RH at 100° F for 3,000 hours	No field Blisters	No more than “few” blisters, size 8 (4,000 hours)
Impact Resistance	ASTM D 2794	No loss of adhesion	No removal of film
Pencil Hardness	ASTM D 3363	HB to 2H	Minimum F
Specular Gloss 60 degrees	ASTM D 523	20 – 35	5 – 80
T-bends	ASTM 4145	1T – 3T no loss of adhesion	Not recommended
South Florida Exposure Testing		Florida Exposure south of latitude 27 degrees north at a 45 degree angle facing south for a minimum of 10 years	
Color	ASTM D 2244	No more than 5 Hunter units at 20 years	Less than or equal to 5E units of color change at 10 years
Chalk	ASTM D 4214	Number 8 rating at 20 years	Greater than or equal to Number 8 rating at 10 years
Film Integrity	ASTM G 7	25 years	10 years