

KYNAR 500® SPECIFICATIONS - Polyvinylidene Fluoride (PVDF)*		
	Aluminum Substrate	Coated Steel¹ Substrate
Dry Film Thickness (nominal) ASTM D1400	0.20 – 0.30 mil primer 0.70 – 0.80 mil topcoat	0.20 mil primer 0.75 mil topcoat
Gloss ASTM D523 Standard @ 60° DURANAR LG @ 85°	25 - 35 <10	25 - 35 <10
Pencil Hardness ASTM D3363	F-2H	F-2H
Flexibility² T-bend, ASTM D4145	0-2 T-bend; No pick-off	2 T-bend; No pick-off
Adhesion ASTM D3359 Reverse impact 1/16" crosshatch	No adhesion loss	No adhesion loss
Reverse Impact ASTM D2794 1.5 x metal thickness (aluminum) 3.0 x metal thickness (coated steel)	No cracking or adhesion loss No cracking or adhesion loss	No cracking or adhesion loss No cracking or adhesion loss
Acid Resistance ASTM D1308 10% muriatic acid — 24 hrs. 20% sulfuric acid — 18 hrs.	No effect No effect	No effect No effect
Acid Rain Test Kesternich SO ₂ , DIN 50018	15 cycles min. No objectionable color change	15 cycles min. No objectionable color change
Alkali Resistance ASTM D1308 10%, 25% NaOH, 1 hr.	No effect	No effect
Salt Spray Resistance ASTM B117 5% salt fog @ 95°F	Passes 4000 hrs. Less than 1/16" avg. creepage from scribe; None or few #8 blisters	Passes 1000 hrs. Less than 1/8" avg. creepage from scribe; None or few #8 blisters
Humidity Resistance ASTM D714, ASTM D2247 100% relative humidity @ 95°F	Passes 4000 hrs. No #8 blisters	Passes 1500 hrs. No #8 blisters
Exterior Exposure 10 yrs. @ 45°, south Florida ASTM D2244 ASTM D4214	Max. 5 fade Max. 8 chalk	Max. 5 fade Max. 8 chalk

¹ Coated Steel includes the following types of steel: G90 hot dip galvanized, Galfan, Galvalume, and Zinalume.

² Fracturing or rupturing of substrate will rupture coatings. Heavy gauge and clad steel substrates impose limitations on formability. DURANAR coatings are generally flexible beyond the point of substrate rupture.

*PVDF is a fluoropolymer that is manufactured under the trademark names Duranar (PPG) and Kynar 500®. Paint finishes containing a minimum 70% PVDF resin meet the high-performance weathering criteria established by the American Architectural Manufacturing Association.

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