



Film Characteristics and Properties of Polycron[®] III and Duracron[®] Coatings

Film Characteristics	AAMA 2603 ^① Paragraph Number and Performance Requirements	Polycron III and Duracron Coating Performance ^②
Colors Available ^③		White, Black, and a full range of colors and polychromatics
Dry Film Thickness	4.3 0.8 mil minimum	1.0 ± 0.2 mils ^②
Color Uniformity	6.1 Visually controlled	Color instrumentally and/or visually controlled
60° Gloss, ASTM D-523 ^④	6.2 High, medium and low	High, medium and low gloss - colors. Medium and low gloss - polychromatics.
Hardness-Berol Eagle Turquoise Pencil	6.3 H minimum	Meets or exceeds spec.
Adhesion-Crosshatch 1/16" Wet and Dry	6.4 No removal	Excellent - no removal
Direct Impact 1/10" Distortion	6.5 No removal	Excellent - no removal
Fabrication		Excellent - withstands punching, cutting, drilling
Acid Resistance 10% Muriatic Acid Spot Test	6.6.1 15 minutes - no attack	Meets or exceeds spec.
Alkali Resistance Mortar Pat Test 100% R.H. @ 100°F	6.6.2 24 hours - no attack	Meets or exceeds spec.
Detergent Resistance (3%) Immersion @ 100°F	6.6.3 72 hours - no attack	Meets or exceeds spec.
Humidity Resistance 100% RH @ 100°F	6.7.1 Few #8 blisters max. 1500 Hours exposure	Meets or exceeds spec.
Salt Spray Resistance 5% Salt @ 100°F	6.7.2 1/16" max. undercutting 1500 hours exposure	Meets or exceeds spec.
Weather Exposure	6.8 1000 hours Weather-O-Meter and 1 year South Florida exposure; no loss of adhesion, minimal color change	Meets or exceeds spec.
Compatibility with Commercial Sealants and Glazing Putties		Consult sealant manufacturer for recommendations

① American Architectural Manufacturers Association, "Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels." Publication No. AAMA 2603.

② For more critical applications, a primer/topcoat system and greater film thicknesses may be recommended. Consult PPG coating specialists for recommendations when developing specifications.

③ The range of color availability will vary depending on exposure requirements and architects' specifications.

④ American Society for Testing and Materials.