







Horizons ISG Substrate Selection Guide

	Long-Term+ Applications		Mid-Term+ Applications		Indefinite Indoor Use	
						
Environmental Performance						
Indoor Usage	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Outdoor Weather/UV¹	Excellent (20-50+ years)	Excellent (8-10 years)	Good (1-3 years)	Good* (5-6 years)	Fair* (3-5 years)	Fair* (3-5 years)
Abrasion Resistance²	Excellent (7,000 cycles)	Good (4,000 cycles)	Excellent (7,000 cycles)	Fair* (700 cycles)	Good* (2,000 cycles)	Fair* (700 cycles)
Temperature Resistance³	Excellent (1,000°F)	Good (700°F)	Good (500°F)	Fair* (300°F)	Good* (550°F)	Fair* (180°F)
Salt Spray Resistance⁴	Excellent (as per ASTM B117)	Excellent (as per ASTM B117)	Excellent (as per ASTM B117)	Excellent* (as per ASTM B117)	Excellent* (as per ASTM B117)	Good* (as per ASTM B117)
Fluid Resistance⁵	Excellent (see conditions below)	Good (see conditions below)	Excellent (see conditions below)	Fair* (see conditions below)	Excellent* (see conditions below)	Fair* (see conditions below)
Production Characteristics						
Imaging Technology	Photographic	CO ₂ Laser	Ink Jet	Photographic	CO ₂ Laser	Ink Jet
Production Throughput	Excellent	Fair	Good	Good	Fair	Good
Appearance & Finish						
Color Options	Monochrome	Monochrome	CMYK	Monochrome	Monochrome	CMYK
Resolution	Excellent	Good	Excellent	Excellent	Good	Excellent
Material	Photosensitive Anodized Aluminum	Coated Anodized Aluminum	Anodized Aluminum	Coated Anodized Aluminum or Polyester	Coated Anodized Aluminum	Coated Anodized Aluminum
Sizes (inches)	10x12, 12x20, 20x24, 20x40 & 24x40	10x12, 12x20 & 20x24	10x12 & 12x20	10x12 & 12x20	10x12 & 12x20	8.5x11, 8.3x11.7 (A4), 11.7x16.5 (A3) & 20x24
Thicknesses (inches)	.003, .005, .008, .012, .020, .032, .063, .090 & .125	.005 & .020	.020	.006, .007, .014 & .025	.005 & .020	.005, .012 & .020
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- Weather/UV Stability:** estimated based on a combination of accelerated weather testing with Q-Sun Xe-3/HS test chamber and actual outdoor weathering.
- Abrasion Resistance:** estimated based on laboratory tests with Taber Abraser with a CS17 wheel and a 1000 gram load. Evaluation will be performed every 1000 cycles.
- Temperature Resistance:** estimated based on sequential exposure to 50°F increments for one hour starting at 300°F in forced air oven.
- Salt Spray Resistance:** estimate based on salt fog test per ASTM B117. Evaluation performed after 14 and 30 days exposure (Excellent >30 days, Good = 30 days).
- Fluid Resistance:** a variety of industrial fluids and laboratory chemicals tested. The industrial fluids were selected from those used in Method 504.1 of MIL-STD-810G, as well as common automotive fluids. Samples were immersed in the fluids at the test temperature and evaluated every 24 hours for a week.

*Products evaluated with 3M™ Acrylate Overlaminating Film 7735FL. Consult Horizons for the recommended over-laminate or topcoat for your application. This technical information and data should be considered representative or typical only and should not be used for specification purposes. Horizons ISG does not warrant performance of its materials in any environment.

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