

Metalphoto Foil®

Durability Characteristics

Product Description:

Camcode's Metalphoto Foil labels are constructed of a 3.0-mil aluminum face stock, with a 5.2-mil high performance permanent pressure-sensitive adhesive. This label has excellent resistance to chemicals, abrasion, solvents; and will withstand exterior exposure in the harshest environments, including extreme cold, heat and UV. The adhesive is designed to permanently bond to high surface energy metals and plastics, and textured and contoured surfaces. Using Metalphoto Image Instensification Process, black and silver image exceeds 400 hr. Weatherometer est GG-P-455b, estimated equivalent to 20 year exposure.

PRODUCT DATA	VALUE	TEST METHOD
Physical Properties		
Thickness (Mils [microns])	Film: 3.0 (76) +/- 10% Adhesive: 5.2 Liner: 6.2	ASTM D 3652
Dimensional Stability (%)	No shrinkage observed	Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)
Chemical Resistance (non printed stock)		ASTM D 896 (Modified for numbers of cycles and cycle time)
Household Cleaners:	No effect on topcoat or adhesive	
Mild Acid:	No effect on topcoat or adhesive	
Oil:	No effect on topcoat or adhesive	
Water:	No effect on topcoat or adhesive	
ADHESION PROPERTIES		
Ultimate peel from various surfaces	Oz/in (N/m) average	ASTM D 903 (Modified for 72 hour dwell time)
Stainless Steel:	118(129)	
Acrylic:	67(73)	
Glass:	92(101)	
Polypropylene:	Not recommended	
Expected Shear	?	ASTM D 3654 Method A a. 1 hour dwell b. 1 square inch surface c. 4 pound load
Tack	?	ASTM D 2979
Expected Exterior Life:	20 Years	
Service Temperature Range:	-40°F to 400°F (-40°C to 204°C)	
Minimum Application Temperature:	50°F (10°C)	
Storage Stability:	Two years when stored at 70°F (21°C) and 50% relative humidity	
	? = Adhesive Specific	

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Note: Users must test products in the specific environment anticipated.

Camcode does not warrant performance of its materials in any environment.