Tamper Evident Durability Characteristics

Product Description:

Camcode's Tamper-Evident labels are constructed of a 2.0-mil gloss white polyester face stock, over-laminated with a 1.0-mil clear polyester film, and a 0.7-mil high performance pressure-sensitive adhesive. "Void" message will be left on both the label material and product surface when the label is removed. This label has good resistance to general purpose and household cleaners, mild acids, oil and water. The adhesive is designed to permanently bond to high and low surface energy plastics, stainless steel, glass, and nylon. Expected exterior life is up to two years.

PRODUCT DATA	VALUE	TEST METHOD
Physical Properties		
Thickness (Mils [microns])	Film: 2.0 Adhesive: 0.7 Liner: 3.1	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
Household Cleaners:	No effect on topcoat or adhesive	for numbers of cycles
Mild Acid:	No effect on topcoat or adhesive	and cycle time)
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
Stainless Steel:	102 (1122)	(Modified for 72 hour
Acrylic:	116 (1276)	dwell time)
Glass:	101 (1111)	
Polypropylene:	36 (396)	
Expected Shear	50 Hours	ASTM D 3654 Method A
		a. 1 hour dwell
		b. 1 square inch surface
		c. 4 pound load
Tack	990 gm/sq. cm.	ASTM D 2979
Expected Exterior Life:	Up to Two Years	
Service Temperature Range:	-40°F to 250°F (-40°C to 121°C)	
Minimum Application Temperature:	50°F (10°C)	
Storage Stability:	Two years when stored at 72°F (21°C) and 50% relative humidity	

Note: Users must test products in the specific environment anticipated. Camcode does not warrant performance of its materials in any environment.



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