

DuraSOLV+ Media Specification Sheet

DS6M Vinyl Film

Premium Cast Digital Print Pressure Sensitive Film

PRODUCT DESCRIPTION

DS6M is a 2-mil gloss white cast film with tinted, repositionable, permanent pressure-sensitive adhesive. Designed for large format graphics, **DS6M** is made of 100% polymeric face stock with a special lay-flat liner. The special adhesive system is designed to provide excellent opacity, as well as easy installation. The film provides superior conformability around rivets, curves, and contours. **DS6M** rated for outdoor durability up to 7 years (unprinted). Printed durability is dependent on the ink system used.

AREAS OF USE

- Digital printing with a wide variety of direct print systems
- Fleet and vehicle applications
- Clear version of **DS6M** used for window and second surface signs

PERFORMANCE AND PHYSICAL DATA

<u>PROPERTY</u>	<u>TEST METHODS</u>	<u>TYPICAL VALUE</u>	
SURFACE FINISH	Gloss Meter 60° Reflection	70-90%	
THICKNESS (including adhesive)	Micrometer, Federal Bench Type	0.0032 in	0.08 mm
TENSILE STRENGTH	Tensile Tester with 2-in (51 mm) jaw separation; crosshead speed of 12 in/min. (5.1 mm/s), web direction	≥ 4.5 lb/in width	≥ 0.8 kg/cm width
ELONGATION	Instron Tensile Tester as above	≥ 150%	
SHELF LIFE	Free from excessive moisture, temperature, direct sunlight	2 years from factory shipment	
APPLICATION TEMPERATURE RANGE	On clean, dry substrate (flat) On clean, dry substrate (corrugated with rivets and channels)	40°F to 100°F 60°F to 100°F optimum	4.4°C to 38°C 15°C to 38°C optimum
SERVICE TEMPERATURE RANGE	On clean, dry substrate	-40°F to 175°F	-40°C to 79° C
DIMENSIONAL STABILITY	158°F (70°C), 48 hours	0.015 in	0.38 mm
PEEL ADHESION	PSTC-1, 15 min, RT 70°F (21°C)	≥ 2.5 lbs/in	≥ 0.45 kg/cm
LINER RELEASE	TLMI Release at 90°, 300 in/min (760 cm/min)	30 g/2 in width	12 g/cm width

Standard Terms and Conditions Apply

Effective 2007
Revision:03/2007



OPTIMUM PERFORMANCE

Actual weathering durability depends on surface preparation, surface maintenance and exposure conditions. Successful weather resistance is characterized by the retention of legibility.

DS6M will resist weathering best when applied to vertical or upper outboard angles. Horizontal angles, such as hood and auto roof surfaces, will deteriorate more quickly than vertical. This is due to increased exposure to sun and moisture, as well as continued high deposition of dirt and atmospheric contaminants. Arlon does not recommend its film for horizontal or close horizontal applications.

ADHESION/CHEMICAL CHARACTERISTICS

ADHESION CHARACTERISTICS** SUBSTRATES	ENGLISH UNITS NOMINAL		CHEMICAL REACTION RESISTANCE		
	Lb / in width	Kg / cm	CHEMICAL AGENTS	EXPOSURE TIME	RESULTS
ETCHED ALUMINUM	4.4	0.78	TAP WATER	24 hrs	No Effect
ANODIZED ALUMINUM	5.6	1.00	ETHYLENE GLYCOL/WATER (50% Ethylene Glycol/50% water)	24 hrs	No Effect
CHROME	3.1	0.55	REFERENCE FUEL (85% Mineral Spirits/15% Xylol)	1 hr	No Effect
ACRYLIC ENAMEL	4.4	0.78	SAE 20 MOTOR OIL	24 hrs	No Effect
ACRYLIC LACQUER	4.4	0.78	JP-4 FUEL	10 mins	No Effect
ABS	5.0	0.89	10% HCL	10 mins	No Effect
			10% AMMONIUM HYDROXIDE	10 mins	No Effect
			VM & P NAPHTHA	10 mins	No Effect
			MINERAL SPIRITS	10 mins	No Effect
			METHANOL (Methyl Alcohol)	10 mins	No Effect

CONDITIONS OF SALE

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