



Clipper™

Autograde Masking Tape 7101

Product Data Sheet

Updated : July 2000
Supersedes : October 1996

Product Description Clipper™ Tape 7101 is a chamois coloured creped paper masking tape. This all-purpose tape is specially designed for superior paint masking in the refinish market, and is suitable for many paint masking applications in the industrial market.

Applications Clipper™ Tape 7101 is suitable for air drying and stoving applications. The tape withstands temperatures up to 100 °C for one hour with easy removal afterwards.

Physical Properties
Not for specification purposes
(Calipers are nominal values)

Backing	Latex Saturated Creped Paper
Adhesive	Controlled Crosslinked Rubber Resin
Shelf Life	12 months from date of manufacture by 3M when properly stored in a clean dry place at 21°C & 50 % Relative Humidity.

Product Characteristics
Not for specification purposes

Thickness AFERA4006	0.140 mm
Adhesion to Steel AFERA4001	10.5 N/25mm
Tensile Strength AFERA4004	90 N/25mm
Elongation AFERA4005	10%
Temperature Performance	100°C Satisfactory performance and clean removal of Clipper™ Tape 7101 will be achieved at varying temperatures/time exposure on many substrates. Tests should be conducted to establish Clipper™ Tape 7101 performance parameters in your process conditions. The optimum level for product performance and easy removal is at 100°C for 60 min.

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**Performance
 Characteristics**
 Not for specification purposes

Chemical Resistance	Excellent resistance to petroleum spillage including gasoline, engine oil, jet fuel, kerosene, diluted solutions of strong acids, alkalis and alcohols. Also, resists Freon penetration. Chemical resistance may vary depending on concentration, temperature and duration of exposure.
Haze Level	Film only (per ASTM-D1003) is 0.5%.
Abrasion Resistance	Excellent, after mechanical abrasion test.
Humidity Resistance	Excellent resistance to ambient and elevated temperature humidity.

Resistance to Specific Chemicals
(Labels applied to Stainless Steel Panels, 4 hour immersion)

Gasoline at Room Temperature	Slight edge penetration but recovered when removed to a dry environment.
Jet Fuel at Room Temperature	Slight edge penetration but recovered when removed to a dry environment.
Kerosene at Room Temperature	Slight edge penetration but recovered when removed to a dry environment.
Detergent 5% at Room Temperature	6mm edge penetration
Ammonia 18% at Room Temperature	Excellent
Sulphuric Acid 2% at Room Temperature	6mm edge penetration
Freon (liquid) at Room Temperature	Slight edge penetration but recovered when removed to a dry environment.

Weatherability
(Labels applied to Stainless Steel, ABS, Polyester and Glass)

U.V. Exposure 672 hours (3M UV Chamber)	Excellent, No discolouration
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Adhesion

	Forms an aggressive long ageing bond to polyester, vinyl, ABS, polycarbonate, paper and many other surfaces including glass and stainless steel.
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Features/Advantages/ Benefits	Features	Advantages	Benefits
	Latex Saturated Creped Paper Backing	Conformability	Good Curve Masking
		Solvent Resistance	Prevents Paint Bleed Through
		Sliver Resistance	Easy Removal
		Easy Hand Tear	Good Handling
		Good Paint Anchorage	Good Paint Flaking Resistance
		Thinness	Good Paint Line
	Controlled Crosslinked Rubber Resin Adhesive	Good Instant Adhesion	Sticks Easy
		Good Holding Power	Resists Lifting
		Good Adhesive Transfer Resistance	Minimises Rework
		Controlled Unwind	Easy Handling

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



Tapes & Adhesives Group

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