



# 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)

<b>Backing</b>	Latex Saturated Creped Paper
<b>Adhesive</b>	Controlled Crosslinked Rubber Resin
<b>Shelf Life</b>	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

<b>Thickness</b> AFERA4006	0.140 mm
<b>Adhesion to Steel</b> AFERA4001	10.5 N/25mm
<b>Tensile Strength</b> AFERA4004	90 N/25mm
<b>Elongation</b> AFERA4005	10%
<b>Temperature Performance</b>	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.

Date : July 2000  
 Clipper™ Autograde Masking  
 Tape 7101

<b>Performance Characteristics</b> <small>Not for specification purposes</small>	<b>Chemical Resistance</b>	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.
	<b>Haze Level</b>	Film only (per ASTM-D1003) is 0.5%.
	<b>Abrasion Resistance</b>	Excellent, after mechanical abrasion test.
	<b>Humidity Resistance</b>	Excellent resistance to ambient and elevated temperature humidity.

<b>Resistance to Specific Chemicals</b> <b>(Labels applied to Stainless Steel Panels, 4 hour immersion)</b>	
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.

<b>Weatherability</b> <b>(Labels applied to Stainless Steel, ABS, Polyester and Glass)</b>	
U.V. Exposure 672 hours (3M UV Chamber)	Excellent, No discolouration

<b>Adhesion</b>	Forms an aggressive long ageing bond to polyester, vinyl, ABS, polycarbonate, paper and many other surfaces including glass and stainless steel.
-----------------	--------------------------------------------------------------------------------------------------------------------------------------------------

Date : July 2000  
 Clipper™ Autograde Masking  
 Tape 7101

Features/Advantages/ Benefits	Features	Advantages	Benefits
	Latex Saturated Creped Paper Backing	Conformability Solvent Resistance Sliver Resistance Easy Hand Tear Good Paint Anchorage Thinness	Good Curve Masking Prevents Paint Bleed Through Easy Removal Good Handling Good Paint Flaking Resistance Good Paint Line
	Controlled Crosslinked Rubber Resin Adhesive	Good Instant Adhesion Good Holding Power Good Adhesive Transfer Resistance Controlled Unwind	Sticks Easy Resists Lifting Minimises Rework Easy Handling

3M and Clipper are trademarks of the 3M Company.

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**

3M United Kingdom PLC  
 3M House, PO Box 1,  
 Market Place,  
 Bracknell, Berkshire,  
 RG12 1JU

Product Information :  
 Tel 0870 60 800 50  
 Fax 0870 60 700 99

3M Ireland  
 3M House, Adelphi Centre,  
 Upper Georges Street,  
 Dun Laoghaire, Co. Dublin,  
 Ireland

Customer Service :  
 Tel (01) 280 3555  
 Fax (01) 280 3509

© 3M United Kingdom PLC 2000