



Technical Data Sheet

Effective: 1/10/2026 Supersedes: NEW

Automotive Aftermarket Division

3M™ Purple Premium Moisture-Resistant Masking Film

1) Part Numbers

5098R	3M™ Purple Premium Moisture-Resistant Masking Film, 4 m x 150 m
5099R	3M™ Purple Premium Moisture-Resistant Masking Film, 5 m x 120 m
5187R	3M™ Purple Premium Moisture-Resistant Masking Film, 6 m x 100 m

2) Description and end uses

3M™ Purple Premium Moisture-Resistant Masking is an advanced translucent HDPE film containing 30 % pre-consumer recycled content. The product is designed for masking vehicles during refinish applications. The film is soft and flexible, providing good drape, conformability, and cling for complete coverage

The top surface is specially treated to ensure excellent paint adhesion and to help prevent flaking during the refinish process. The underside features an additional coating that reduces the risk of imprinting or ghosting when used on vehicles with residual moisture.

3) Physical Properties

Property	Value & Measuring Unit	Method
Thickness	16.5 µm	ASTM E252
Tensile Strength (MD)	41.4 MPa	ASTM D882
Tensile Strength (CD)	20.7 MPa	ASTM D882
Elongation at break (MD)	200 %	ASTM D882
Elongation at break (CD)	300 %	ASTM D882
Pre-Consumer Recycled Content	30 %	
Temperature Resistance	105 °C	

4) Directions for Use

1. Ensure that the film is used the correct way around on the vehicle prior to paint application. Ensure that when positioning the film on the vehicle, the '3M' logo and the 'Paint this side' wording read correctly and are not reversed. Failure to do so may result in rework.



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2. The vehicle should be as dry as possible before masking to prevent excessive moisture from being trapped under the film during the baking or drying process. The film is engineered to perform on surfaces with slight residual moisture; however, excessive water on the surface may cause imprints, marking or rework.
3. The temperature resistance of up to 105°C allows the film to be used with all types of curing /drying methods, including conventional low bake and Infra-Red lamps and ovens.
4. Care must be taken not to scratch or damage the vehicle when cutting the film around the areas to be painted.

5) Storage

18-month shelf life when stored in a clean, dry location under normal conditions at 21 °C and 50 % relative humidity, in the original carton

6) Safety

3M™ Purple Premium Moisture-Resistant Masking Film is designed FOR PROFESSIONAL INDUSTRIAL USE ONLY.

7) Disclaimer

All statements, technical information and recommendations are based on tests we believe to be reliable as at the date of hereof, but the accuracy or completeness thereof is not guaranteed. Please ensure before using the product that it is suitable for your intended use. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, other than for fraudulent misrepresentation, 3M expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.



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For Additional Health and Safety Information

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