



Primo Film – Laser Markable

PRODUCT CONSTRUCTION

Primo-film label stock is a two layer film designed for the production of finished labels using a laser marking machine. The surface of the film can be laser inscribed and the film and adhesive can be die-cut by laser beam.

This acrylic film is halogen-free with excellent resistance to chemical substances, temperature and other environmental influences.

Primo-film is coated with an acrylic based adhesive that allows initial repositionability as well as an excellent ultimate adhesion.

Primo-film is designed to provide tamper-evident identification, where labels cannot be transferred without damage once they have been applied to a painted metal surface.

Primo-film is also suitable on some plastic surfaces.



FEATURES & BENEFITS

- More competitive unit cost than others in the market place
- Markable with Nd-YAG and CO² laser marking equipment
- Laser marks on lower power settings
- Speed of laser beam marking & cutting
- Low dust content giving extended filter life
- Capable of producing high contrast marking such as text, barcodes and graphics
- Excellent abrasion, chemical, temperature and environmental resistance to Automotive standard
- No harmful emission during marking process
- Excellent Weathering resistance
- ELV Compliant

PRODUCT AVAILABILITY

GSM Primo-film is available as a roll material or pre-die-cut labels.

If laser marking equipment is not available, GSM work with several partners who offer a quick and reliable laser marking bureau service according to customer specification.

GSM can also provide names of companies who manufacture and supply appropriate laser equipment, where in-house marking is preferred.

Note: **Primo-film** is designed for painted metal and high energy surfaces





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PHYSICAL PROPERTIES

Construction	White base film with black surface coating
Material	50 Micron destructible Acrylic
Adhesive	Acrylic – permanent
Liner	90 Micron 'Lay-Flat' Liner
Min Application Temperature	10°C
Storage / Shelf Life	2 years @ 21°C, 50% RH

TEMPERATURE RESISTANCE

Temperature Range	-40°C to 150°C
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FUNCTIONAL PERFORMANCE

When applied to a metal substrate the following results are observed:

Heat Ageing @ 110°C for 7 days	Pass – Material destructs on removal
Humidity @ 99%RH for 7 days	Pass – Material destructs on removal
UV Resistance for 200 hours	No Change
Accelerated Ageing	No Change
Flammability	Burn Rate <80mm per minute
Salt Spray Resistance	240h/5% concentration/35°C No change
Abrasion Resistance	Taber CS10,250g load,100 cycles
Immersion in Engine Oil for 7 days @ 100°C	No Change
Immersion in Diesel for 1 hour @ 23°C	No Change
Exposure to Fuel C + 15% methanol	No Change
Dimensional stability	No change at 90°C over 168 hours

WARRANTY & LIABILITY

The information shown on this data sheet is based on our experience with this material. It is our recommendation that prior to use, the customer should verify that the material is suitable for its intended application

GSM does not assume any warranty and liability for this product