

# 3M Glossy Removable Protection Film GLS100

Technical Data Sheet

January 2011

**Description** 3M™ GLS100 Glossy Removable Protection Film uses 3M's coating technology to provide durable protection with a residue-free, self-wetting adhesive for application on electronic displays.

**Applications** 3M GLS100 is typically used to provide display protection for electronic displays.

3M GLS100 provides a durable hardcoat barrier between the display surface and the user or environment to protect against scratches and damage to the display. The residue-free adhesive technology gives an easy-to-apply and easy-to-remove application experience for the user.

**Protection Effectiveness** 3M GLS100 Glossy Removable Protection Film uses 3M's coating technology to provide a durable hardcoat barrier between the display surface and the user or environment. Providing this hardcoat on an easy-to-apply, easy-to-remove film enables the renewal of a display surface by a simple replacement of the top film.

**Typical Properties** Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

| Property (Test Method)                | Typical Value<br>US units (metric)  |
|---------------------------------------|---|
| % Transmission                        | ≥ 90%   |
| Haze                                  | ≤ 3%  |
| Clarity                               | ≥ 99%   |
| Nominal thickness                     | 6 mil (0.155mm)   |
| Steel Wool Abrasion                   | Light scratching, 250 g/cm <sup>2</sup> , 20 rubs, #0000 steel wool                               |
| Pencil Hardness                       | ≥ 4H  |
| Water contact angle (hydrophobic)     | ≥ 95 degrees  |
| Hexadecane contact angle (oleophobic) | ≥ 55 degrees  |
| Heat resistance                       | 85 <sup>0</sup> C for 500 hours   |
| Cold resistance                       | -40 <sup>0</sup> C for 500 hours  |
| Humidity resistance                   | 60 <sup>0</sup> C/90% RH for 500 hours  |
| Thermal shock resistance              | 85 <sup>0</sup> C for 1 hour to -40 <sup>0</sup> C for 1 hour, 100 cycles                         |
| Chemical resistance                   | Bleach, MEK, IPA, Acetone, Window cleaner, motor oil, cola, coffee, water insoluble marker, water |

# 3M GLS100 Glossy Removable Protection Film

## Product Features

- Durable hardcoat for display protection
- Crystal clear glossy coating to maintain a display clarity
- Low tack, easy to apply and remove adhesive
- Scotchgard™ easy-to-clean hydrophobic and oleophobic surface

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## Shelf Life & Storage (prior to application)

Material should be stored in its original packaging, laying in a horizontal orientation, away from direct sunlight. Heavy objects should not be placed on top of it to avoid damaging the product. Ambient temperature and humidity should be controlled to 10-30° C at 30-60% relative humidity.

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## Availability

For availability, please contact our customer service group at 1-800-553-9215 or visit our website at [www.3m.com/displayenhancement](http://www.3m.com/displayenhancement)

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## Important Notice

**The following is made in lieu of all warranties, express or implied, including any implied warranties of merchantability or fitness for a particular purpose.**

3M warrants that, at the time of shipment, product will meet 3M's published specification or that specification agreed in writing between 3M and purchaser. Should product not meet specifications at time of shipment, 3M will replace or refund the purchase price of such quantity of the product found not to meet specifications. Purchaser shall determine the suitability of the 3M Product for purchaser's application. **3M shall not be liable under any legal theory, including in contract or in tort, for any injury, loss, or damage, whether direct, indirect, incidental, special or consequential, arising out of the use of or the inability to use the product.**

**The warranties and remedies set forth herein are purchaser's sole and exclusive warranties and remedies.**

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**3M**

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