

# Protect against damage and improve your view.

3M™ Industrial Display Protection Films are an exceptional solution for electronic displays in rugged environments, providing durable protection and improved viewing quality in a variety of lighting conditions.



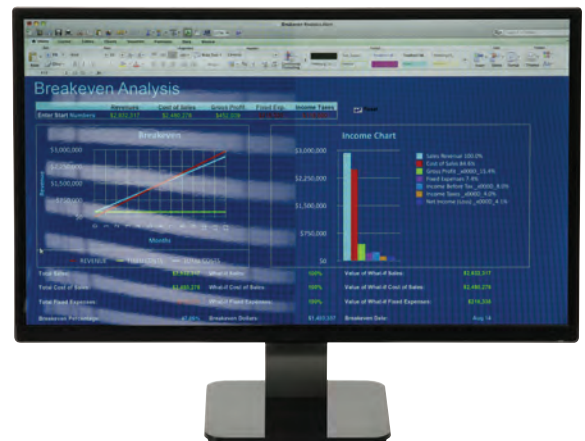
## Markets and Applications

- Locomotive
- Heavy equipment
- Medical
- Construction
- Agriculture
- Mobile enterprise
- Hospitality

Over the lifetime of an electronic device, the cost to add a 3M display protection film to help prevent scratches and scuffs and improve viewability is just a fraction compared with the cost to repair or replace a damaged display.

Without 3M™ Anti-Glare Filter

With 3M™ Anti-Glare Filter





# Glare reduction. Excellent display protection.

## 3M™ Anti-Glare Protection Film (AGF6200)

3M™ Anti-Glare Protection Films use advanced coating technology to provide durable protection and glare reduction for a clear image on electronic displays, especially in bright lighting conditions.

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Helps prevent damage, scratches and scuffs

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Anti-glare matte to reduce mirror-like reflections

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Mask fingerprints

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Minimal impact on display image

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Chemical and disinfectant resistant

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Property (Test Method)	Typical Average Value
% Transmission	93.8%
Haze	24.5%
Normal Thickness (with Adhesive)	0.308mm
Steel Wool Abrasion	No scratching, 125g/cm <sup>2</sup> , 25 rubs, #0000 steel wool
Pencil Hardness	5H
Water Contact Angle (Hydrophobic)	95 degrees
Hexadecane Contact Angle (Oleophobic)	55 degrees
Heat Resistance	60°C, 15% relative humidity, 7 days
Humidity Resistance	40°C, 85% relative humidity, 7 days
Thermal Shock Resistance	-35°C to 60°C for 10 cycles at 11 hrs per cycle
Chemical Resistance	Bleach, MEK, IPA, window cleaner, motor oil, cola, coffee, water insoluble marker, and water. Hospital Grade Disinfectant Wipes: 3M™ Neutral Quat Disinfectant Cleaner 5H, 5L, 18H, 18L, 23H, 23L, Clorox® Germicidal Wipes, Diversey™ Oxivir® Tb Wipes, Ecolab® Virasept™ Ready-To-Use, Johnson Diversey™ Virex® II 256, Metrex CaviWipes™, PDI Super Sani-Cloth® Germicidal Disposable Wipes and Sani-Cloth® Plus Germicidal Disposable Cloth





# Enhance and protect your viewing experience.

## 3M™ Glossy Low Reflection Protection Film (GLR320)

3M™ Glossy LR Protection Film features a low reflection coating for clear, sharp display enhancement and ambient light management. Optically clear, ultra-thin film allows up to 93% transmission, keeping displays bright with no color distortions.

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Helps prevent damage, scratches and scuffs

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Reduces annoying reflections

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Enhances display clarity while maintaining glossy finish

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Scotchgard™ easy-to-clean surface

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Chemical and disinfectant resistant

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Property (Test Method)	Typical Average Value
% Transmission	Up to 96%
Haze (Gloss Level)	40 at 20 degrees, front surface only
Clarity	>= 99%
Thickness	0.130mm
Hardness	3H (200g)
Steel Wool Abrasion	Light scratching 50g/cm <sup>2</sup> , 10 rubs, #0000 steel wool
Surface Energy	< 30 dynes/cm
Heat Resistance	85°C x 500 hrs
Cold Resistance	-40°C x 500 hrs
Humidity Resistance	65°C/90% relative humidity x 500 hrs
Thermal Shock	-40°C x 1 hr/85°C x 1 hr) x 100 cycles
Storage Temperature	15 – 35°C
Storage Humidity	50 +/- 15%
Chemical Resistance	Bleach, MEK, IPA, acetone, window cleaner, motor oil, cola, coffee, water insoluble marker, water, hospital grade disinfectants



# It pays to protect your display.

## 3M™ Glossy Protection Film (GLS200)

3M™ Glossy Protection Film offers a glossy finish to help maintain the finish of a glossy display or instantly upgrade a matte display to high-gloss. Optically clear, ultra-thin film offers greater than 93% transmission, keeping displays bright.

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Helps prevent damage, scratches and scuffs

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Instant upgrade in mechanical robustness

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High clarity, glossy finish

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Scotchgard™ easy-to-clean surface

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Chemical and disinfectant resistant

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Property (Test Method)	Typical Average Value
% Transmission	>/= 92%
Haze (Gloss Level)	< 2%
Clarity	>/= 99%
Thickness	155µm ± 12
Hardness	4H (500g)
Steel Wool Abrasion	No scratch visible
Surface Energy	< 30 dynes/cm
Heat Resistance	85°C x 500 hrs
Cold Resistance	-40°C x 500 hrs
Humidity Resistance	65°C/90% relative humidity x 500 hrs
Thermal Shock Resistance	-40°C x 1 hr/85°C x 1 hr) x 100 cycles
Storage Temperature	15–35°C
Storage Humidity	50 +/- 15%
Chemical Resistance	Bleach, MEK, IPA, acetone, window cleaner, motor oil, cola, coffee, water insoluble marker, water, hospital grade disinfectants

Learn more about our protection films at [3M.com/durablelabels](https://www.3m.com/durablelabels) or contact 3M at 1-800-362-3550.



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