

Scotchgard™

Paint Protection Film SGH6 and SGH12

For Professional Applicators

Technical Data Sheet

September 2005

Replaces Product Bulletin 1-45 dated April 2004

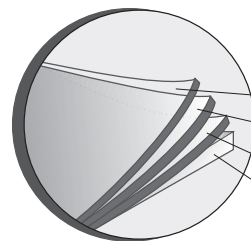
General Description

Scotchgard™ Paint Protection Film SGH6 and SGH12 are noted for their proven overall excellent performance. This rugged, crystal clear film protects against stone chips, bug damage, abrasion and weathering. Nearly invisible, its specially formulated clearcoat (patent pending) helps preserve the color brilliance and design lines of a vehicle's painted surfaces. Proven to meet automotive OEM specifications, this durable film is flexible, conformable and long lasting. Scotchgard Paint Protection Films SGH6 and SGH12 are available in roll sizes to meet your application needs.

Application

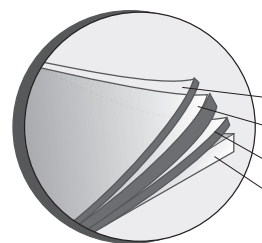
For detailed information on application of Scotchgard Paint Protection Films SGH6 and SGH12, see the Technical Update Application Guide or visit our website, www.3M.com/PaintProtectionFilm. For best results, apply the film to a clean vehicle at temperatures between 55°F – 100°F (13°C – 38°C).

Product Construction



SGH6

Protective Clear Coat (patent pending)
Thermoplastic Urethane
Acrylic Adhesive
New and Improved Release Liner



SGH12

Protective Clear Coat (patent pending)
Thermoplastic Urethane
Acrylic Adhesive
New and Improved Release Liner

Shelf Life

One year from date of receipt by customer when stored at 40°F – 100°F (4°C – 38°C) & 0-95% relative humidity. Optimum recommended storage conditions are 72°F (22°C) & 50% relative humidity.

Warranty

3M warrants to our direct customer that Scotchgard Paint Protection Film will be free of defects in materials and manufacture for **five (5) years** from date of purchase. This warranty does not apply to damage caused by misuse, accident, misapplication, or ordinary wear.

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Physical Properties

Urethane Film	Clear, Non-Yellowing	
Adhesive	High Performance Acrylic	
Thickness	SGH6	SGH12
Clearcoat & Urethane Film	0.0060 in. (0.153 mm)	0.0120 in. (0.305 mm)
Adhesive	0.0020 in. (0.051 mm)	0.0020 in. (0.051 mm)
Liner	0.0067 in. (0.170 mm)	0.0067 in. (0.170 mm)
Liner (new and improved)	Easy-release paper – 3M Logo Printed	
Roll Widths	Max. 48 in. (1220 mm)	
Roll Lengths	Vary with application. Contact your 3M Automotive Sales Representative.	

Performance Properties

Performance tests are run using standard test procedures. Scotchgard film SGH6 and SGH12 meet or exceed the minimum specification values shown below.

Test Procedures and Conditions	Results
	Exceeds all Minimum Specification values shown below
90 Degree Peel Adhesion - lb/in. (N/m)	
Room Temp. 20 minute 72°F/50%RH (22°C/50%RH)	4.0 (700)
Room Temp. 72 hrs. 72°F/50%RH (22°C/50%RH)	4.0 (700)
Heat Aged 168 hrs. 158°F (70°C)	4.0 (700)
Humidity Aged 168 hrs. 95°F/100%RH (35°C/100%RH) & 2 hrs. 158°F (70°C)	4.0 (700)
Tensile - PSI (Mpa)	1740 (12)
Elongation - percent	200%
Gravelometer (SAEJ400)	Pass (No Ruptures)
Outdoor Weathering - 24 months	
Arizona 45 degree South Exposure - No significant change in gloss, adhesion or yellowing. - No film cracking or crazing.	Pass
Florida 5 degree South Exposure - No significant change in gloss, adhesion or yellowing. - No film cracking or crazing.	Pass

Note: All statements, technical information and recommendations herein are based on tests 3M believes are reliable. 3M does not warrant or guarantee the accuracy or completeness of this information.

3M designs, formulates, and manufactures Scotchgard Paint Protection Film for optimum performance and durability. The 3M commitment to quality is the foundation for the warranty coverage we provide.

What is covered? 3M warrants that Scotchgard Paint Protection Film will be free of defects in materials and manufacture for five (5) years from date of purchase. This warranty does not apply to damage caused by misuse, accident, misapplication, or ordinary wear, nor does it apply to dents caused by physical impact of rocks or road debris.

Applicator Warranties. Some applicators may choose to offer, on their own behalf, different or additional warranties or remedies, beyond the 3M film warranty stated above. The applicator is responsible for the costs of any different or additional warranties or remedies beyond those described herein.

Remedy and Limitations. The 3M warranty stated in this document is exclusive and is made in place of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose. 3M will replace or refund the purchase price of any film that does not meet this warranty. This is the exclusive remedy, and 3M shall not be liable for any other damages, including incidental or consequential damages, arising out of the use or inability to use Scotchgard Paint Protection Film.



Automotive Aftermarket Division

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Minimum 10% Post-Consumer Fiber
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