



Paint Protection Film PUL8591 and PUL8592

Technical Data Sheet

February 2008

Supersedes Technical Data Sheet dated May 2006

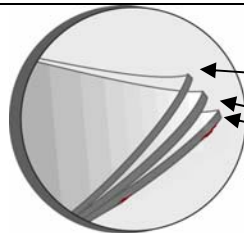
General Description 3M™ Paint Protection Films PUL8591 and PUL8592 protect automotive surfaces from scratches, galvanic corrosion, abrasion and wear. The products are primarily used by automotive OEMs to protect non-visible surfaces.

Key features of 3M Paint Protection Films include:

- Automotive OEM approved
- Excellent initial film clarity and gloss retention
- Film flexibility, making parts easier to apply on complex automotive surfaces
- Protection against scratches, part wear and corrosion

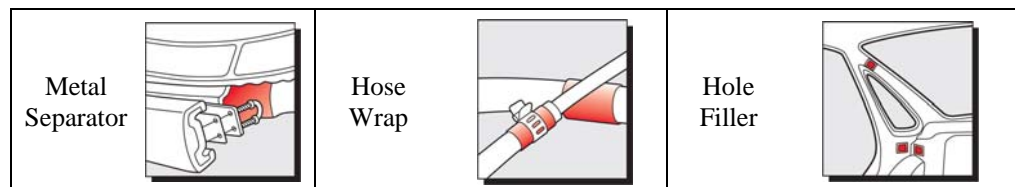
Physical Properties	Product	Thickness	
		Base Film	With Adhesive
	PUL8592	0.152 mm 6 mils	0.203 mm 8 mils
	PUL8591	0.305 mm 12 mils	0.356 mm 14 mils

Product Construction



	PUL8591 / PUL8592
Film	Polyurethane
Adhesive	Acrylic PSA
Liner	Paper

Applications



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Performance

Test	Condition	Result
Peel Adhesion	20 minutes at room temperature	600 N/m 3.4 lb/in
	72 hours at room temperature	700 N/m 4.0 lb/in
	168 hours at 70°C/158°F	700 N/m 4.0 lb/in
	168 hours at 35°C/95°F & 100% RH	700 N/m 4.0 lb/in
	Thermal Cycle	700 N/m 4.0 lb/in
Stain Resistance	Unleaded gasoline	Moderate discoloration
	Diesel fuel	
	Motor oil	
Gravelometer	SAE J400 - 2 cups of gravel at 25°C/77°F	Pass – no paint chipping
Natural Weathering	12 months at 45° south-facing Arizona exposure	Slight discoloration No cracking, chalking, or dulling
	12 months at 5° south-facing Florida exposure	Slight discoloration No cracking, chalking, or dulling
Shrinkage		< 0.1%
Tensile		30 MPa (4350 psi)
Elongation		> 400 %

Availability

3M™ Paint Protection Films are available direct from 3M or 3M-approved converters. Contact your 3M Automotive Division account representative for roll sizes, minimum order quantities, prices, and terms and conditions of sale.

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