



PUL 2008 3M™ High Performance Protective Film

Temporary Technical Data Sheet

General Description

3M™ high performance protective films have been specially designed to protect painted automobile surfaces. The improved functionality ensures protection against mechanical influences allowing the conservation of its visual appearance for long periods. 3M™ high performance protective films enable customized applications through high conformability to complex shapes with very good abilities to wrap-around flanges and edges. 3M™ high performance protective films have been developed for protecting against mechanical stresses for example stone chip impacts, abrasion and scratching as well as against chemical attack and environmental exposure.

Special Characteristics

PUL 2008 is a high performance protective film, which can be used for a wide range of exterior automotive applications. A characteristic feature of this film is its high transparency together with a high gloss surface appearance. Its excellent functionality is needed for protection of many automobile specific applications e.g. surfaces between the car body and the bumper, wheel arch areas, glass sunroofs, painted surfaces at door edges and around door handles. PUL 2008 resists well against gravel impact as well as abrasion and scratching even under high temperature influences. Furthermore this film helps to reduce noise and provides resistance to splintering at low temperatures. The adhesive has been designed to provide reliable permanent adhesion under all common environmental loads.

General Properties

Colour	highly transparent
Application tape (optional)	pressure sensitive adhesive coated paper to enable an easy, dimensionally stable application of the paint protective film.
Film	especially developed PUR resin combined with an additional functional layer
Adhesive	acrylate adhesive with very high bond strength developed for automotive paints surfaces
Liner	paper liner for easy removal
Shelflife	12 months from date of receipt by customer when stored in original cartons at 22 ± 4°C and at max. 60% relative humidity

PUL2008

3M™ High Performance Protective Film

Physical Properties (typical values)

Criteria	result	specification
Thickness (film and adhesive)	250 ± 50 µm	3M ADSD 0596
Tensile strength and elongation	3275 N/cm ² , 320 %	3M ADSD 0596
Dimensional stability (Shrinkage) 30min. 120°C	< 0,5 %	3M ADSD 0596

Performance Properties (typical values)

180°Peel adhesion (aluminum / paint)	result	specification
30 min. at SLC	min. 3,4 N/cm	3M ADSD 0596
72 Std. at SLC	min. 5,3 N/cm	3M ADSD 0596
7 days at 90 °C	min. 8,0 N/cm	Automotive OEM requirements
1000 hrs. at HH	min. 6,0 N/cm	Automotive OEM requirements
Cycle (10x)	min. 7,2 N/cm	Automotive OEM requirements
Visual rating	result	requirements
7 days at 90 °C	corresponds	no changes
1 hour at 100°C	corresponds	no changes
1000 hrs. at HH	corresponds	no changes
Cycle (10x)	corresponds	no changes

Additional Information

This technical data sheet includes specific material information. All data are typical values.

Important notice to purchaser

All statements, technical information and recommendations herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. Please ensure before using our product that it is suitable for your intended use. All questions of liability relating to this product are governed by the Terms of Sale subject, where applicable, to the prevailing law.



3M Deutschland GmbH
Automotive Laboratory
Carl-Schurz-Strasse 1
D-41453 Neuss
Tel. (49)-2131-143580
Fax. (49)-2131-14 123580

PUL2008 High Performance Protective Film _E_00/ps
Page 2 of 2
Date of release: 04/2007
Ref.: TL10215 / TL10326 / TL10394