

The best protection you will never see.

» SOLAR GARD® AUTOMOTIVE PAINT PROTECTION FILM

Clearshield Pro

Physical Properties and Performance Data

Test Item	Test Method	Nominal Value
TPU thickness	Micrometer	6 mil (150 microns)
Product thickness (HC+TPU+PSA)	Micrometer	8 mil (200 microns)
Release liner thickness	Micrometer	3 mil (75 microns)
Tensile strength at break	ASTM D882	478 kg/cm ² (6,800 lbs./in ²)
Elongation at break	ASTM D882	400%
Break strength	ASTM D882	95 N/cm (54 lbs./in)
Gloss	Adhered to paint panel. 60° gloss per ASTM D523	90 GU
Initial peel adhesion	Adhered to paint panel, 20 min at 22°C (72°F)	9.3 N/cm (2,400 g/in)
After heat age peel adhesion	Adhered to paint panel, 30 min at 120°C (248°F)	13.9 N/cm (3,600 g/in)
Water immersion	Adhered to paint panel, 40°C (104°F) in water bath for 16 days	Pass, NDE
Heat aging	Adhered to paint panel, 80°C (176°F) for 16 days	Pass, NDE
Adhered state shrinkage	Adhered to paint panel for 48 hrs. at 80°C (176°F)	<0.2%
Chip resistance	SAE J400 (Gravelometer)	Pass, no ruptures
Accelerated weathering	Supereye (SUV W161) for 3 weeks	Pass, NDE
Accelerated weathering	Xenon Arc 2,000 hrs.	Pass, NDE
Chemical resistance-fuel	3 cycles in a beaker of 60% isooctane, 40% toluene, at 22°C (72°F)	Pass, NDE
Chemical resistance-soap/water	FLTM BI 113-01	Pass, NDE
Chemical resistance-acid	SLTM BI 113-02	Pass, NDE

HC = Hard Coat, TPU = Thermal Plastic Polyurethane, PSA = Pressure Sensitive Adhesive

Adhesion: 180° peel on Instron tensile tester.

Supereye 3 weeks has total UV dosage of 1,166 MJ/m²

NDE: No Detrimental Effect

Note: all values are nominal values and should not be used for specification purposes

Features

- Virtually invisible high grade polyurethane barrier
- Highly stretchable material makes it easy to wrap door edges, door handle areas, bumpers and mirrors without the use of a steamer
- Available in a wide range of widths up to 152,4 cm for large applications like full hoods
- Waste-saving blue contrast liner makes it easy to see cut lines, helping to save time, material and money
- Low surface texture/orange peel
- Will remain optically clear and stay in place
- Will not crack, peel, bubble or harm paint finish upon removal
- Warrantied against yellowing and other manufacturer defects



Performance notes

Performance results were generated with LBNL Windows 5.2 according to NFRC standards, using 1/8" (3mm) clear glass and have been measured, calculated and reported in accordance with ASTM, ASHRAE and AIMCAL standards. Solar Gard® is a participating member of AIMCAL and the IWFA.

Performance results are subject to variations within industry standards and should be used for comparative purposes only.

Important: Solar Gard is not responsible for automotive window film installation compliance with the laws of your state, or the laws of any other state where the vehicle may be utilized. You must therefore determine whether such window film is in compliance with any such laws.

Do not install any window film product in violation of any law.

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