



CLEARSHIELD® PRO

ACTIV™

SELF-HEALING PAINT PROTECTION FILM



Active self-healing technology, no heat required.

Solar Gard is proud to bring you the latest innovation in paint protection film (PPF) technology. Clearshield® Pro ACTIV™ is expertly engineered to deliver a balance of **instantly activated self-healing** with the **outstanding scratch resistance** the Clearshield Pro name represents.

And unlike other options on the market that require heat and/or water to start the self-healing process, ACTIV technology is immediately triggered once scratched or damaged. Its topcoat also features a hydrophobic, crosslinked design that beads up and repels water, mud and grime.

Continuously protect your vehicle's factory paint while enhancing its finish with Clearshield Pro ACTIV. We're taking "the best protection you'll never see" to its most activated state.

	TEST ITEM	TEST METHOD	NOMINAL VALUE
PHYSICAL PROPERTIES	Cap sheet	Micrometer	1.5 mil (40 micron)
	TPU thickness	Micrometer	6 mil (150 micron)
	Product thickness (TC+TPU+PSA)	Micrometer	8 mil (200 micron)
	Tensile stress at break	ASTM D882	> 2,200 lbs/in ² (> 15 MPa)
	Elongation at break (%)	ASTM D882	> 250%
	Break strength	ASTM D882	> 45 lbs/in (83 N/cm)
GLOSS	Gloss	Adhered to paint panel, 60° gloss per ASTM D523	92 GU
ADHESION	Initial dry peel adhesion	Film applied dry, cured for 20 min at 72°F (22°C)	1,290 g/in (5 N/cm)
	Initial wet peel adhesion	Film applied wet, cured for 20 min at 72°F (22°C)	1,340 g/in (5 N/cm)
	After heat age peel adhesion	Adhered to paint panel, 3 min at 248°F (120°C)	2,700 g/in (10 N/cm)
	Adhered state shrinkage	Adhered to paint panel, 48 hrs at 176°F (80°C)	No shrinkage
AGING TEST	Heat aging	Adhered to paint panel, 16 days at 176°F (80°C)	Pass, NDE
	Accelerated weathering	ASTM G155 Cycle 7- 3,000 hrs	Pass, NDE
IMPACT RESISTANCE	Chip resistance	SAE J400 (Gravelometer)	Pass, NDE
CHEMICAL RESISTANCE	Soap & water	Samples submerged in chemical for 24 hrs followed by visual inspection.	Pass, NDE
	Isopropyl alcohol		Pass, NDE
	Mild acid (pH 9+)		Pass, NDE
	Windshield washer fluid		Pass, NDE
	Unleaded gasoline	Samples submerged in chemical for 30 minutes followed by visual inspection in 24 hrs.	Pass, NDE
	Motor oil		Pass, NDE
STAIN RESISTANCE	Sharpie marker	Lines were drawn on the film with a permanent Sharpie marker. Each line was wiped with a dry towel at 5- and 15-min and 24-hr intervals.	No visual residue
SELF-HEALING	Brass brush (Lincoln Electric KH582)	Samples were scratched in a circular motion with a brass brush, then visually inspected @15-second intervals until scratches were no longer visible.	< 1 minute, no visible scratches
		Samples were scratched in a circular motion with a brass brush, then exposed to mild heat and visually inspected.	No visible scratches

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

Adhesion: 180° peel on Instron tensile tester

NDE: no detrimental effect

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

Shelf life:

Solar Gard recommends using Clearshield Pro ACTIV within one year from date of purchase.

Optimum storage conditions for Clearshield Pro ACTIV are 40°F (4°C) to 90°F (32°C), and 40% to 60% relative humidity.

www.solargard.com/ACTIV

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