



CLEARSHIELD® PRO HYDRO

PAINT PROTECTION FILM

Clearshield® Pro Hydro Technical Data Sheet

Clearshield Pro® is already the best safeguard for your customers' factory paint. Clearshield Pro® HYDRO – the latest paint protection innovation from Solar Gard – is about them. With its industry-leading **StainX™ topcoat technology**, they can enjoy more time riding in a freshly waxed-looking car and less time washing it.



INSTALLATION FEATURES DESIGNED WITH YOUR BUSINESS IN MIND:

- Highly formable material – wrap edges, bumpers and mirrors with ease, while reducing seams and relief cuts
- Wide-width availability – ideal for large applications like full hoods
- Blue contrast liner – save time, money and wasted material with greater visibility of cut lines

FEATURES AND BENEFITS YOUR CUSTOMERS WILL LOVE:

- Innovative StainX hydrophobic, stain-resistant topcoat – invisibly guard your vehicle's finish from damage caused by water, bug splatter, bird droppings and other elements
- Time savings – wash your vehicle less with product's hydrophobic technology
- Luxury appearance – maintain a glossy, just-waxed look
- Self-healing – advanced polymer technology helps minor scratches disappear
- Warranty coverage – 5-year protection from yellowing, hazing, cracking, peeling and molding
- Higher vehicle resale value – keep your car looking as good as the day you purchased it

	TEST ITEM	TEST METHOD	NOMINAL VALUE
PHYSICAL PROPERTIES	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	6,800 lbs./in ² (478 kg/cm ²)
	Elongation at break	ASTM D882	400%
	Break strength	ASTM D882	54 lbs./in (95 N/cm)
	Gloss	Adhered to paint panel. 60° gloss per ASTM D523	90 GU
ADHESION	Initial dry peel adhesion	Dry Adhered to paint panel, 20 min at 22°C (72°F)	1,100 g/in (4.3 N/cm)
	Initial wet peel adhesion	Dry Adhered to paint panel, 20 min at 22°C (72°F)	1,200 g/in (4.3 N/cm)
	After heat age peel adhesion	Adhered to paint panel, 3min at 120°C (248°F)	>2100 g/in (8.2 N/cm)
	Adhered state shrinkage	Adhered to paint panel for 48hrs at 80°C (176°F)	< .0.2%
AGING TEST	Accelerated weathering	ASTM G155 Cycle 7, 3,000 hrs	Pass, NDE
	Heat Aging	Adhered to paint panel, 80°C (176°F) for 16 days	Pass, NDE
IMPACT RESISTANCE	Chip resistance	SAE J400 (Gravelometer)	Pass, no ruptures
CHEMICAL RESISTANCE	Soap & water	Samples submerged in chemical for 30 minutes followed by visual inspection in 24 hrs.	Pass, NDE
	White vinegar		Pass, NDE
	Motor oil		Pass, NDE
	IPA		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, 15 min and 24 hr intervals.	No Visual Residue
	Tea	Sample was submerged in tea solution for periods of 5, 15 min and 24 hrs. Samples were removed and wiped with a dry towel.	No Visual Residue

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 Hydro within one year from date of purchase.

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

www.solargard.eu

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