



Clearshield® Pro Data Sheet

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 60 inch (152.4 cm) for large applications like full hoods and as small as 0.5 inch (1.3 cm) for door edge guards.
- Waste-saving blue contrast liner makes it easy to see cut lines, helping to save time, material and money.
- Low surface texture/orange peel.
- High gloss surface and optical clarity allows original paint color to shine through.
- Easy maintenance.
- In the unlikely event that the product is damaged, it can be easily peeled away exposing undamaged factory paint like the day Clearshield Pro was installed.

WARRANTY:

Clearshield Pro delivers superior protection with a 7-year limited manufacturer's warranty, that the film:

- Will remain optically clear and stay in place.
- Won't crack, peel, bubble or harm paint finish upon removal.
- Warrantied against yellowing and other manufacturer defects.

	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
PERFORMANCE DATA	Initial peel adhesion	Adhered to paint panel, 20 min at 72°F (22°C)	2,400 g/in (9.3 N/cm)
	After heat age peel adhesion	Adhered to paint panel, 30 min at 248°F (120°C)	3,600 g/in (13.9 N/cm)
	Water immersion	Adhered to paint panel, 104°F (40°C) in water bath for 16 days	Pass, NDE
	Heat aging	Adhered to paint panel, 176°F (80°C) for 16 days	Pass, NDE
	Adhered state shrinkage	Adhered to paint panel for 48 hrs. at 176°F (80°C)	<0.2%
	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 72°F (22°C)	Pass, NDE
	Chemical resistance-soap/water	FLTM BI 113-01	Pass, NDE
	Chemical resistance-acid	FLTM BI 113-02	Pass, NDE
	Chip resistance	SAE J400 (Gravelometer)	10*, Pass, no ruptures

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

SHELF LIFE:

Solar Gard recommends using Clearshield Pro within one year from date of purchase. Optimum storage conditions for Clearshield Pro are 40°F (4°C) to 90°F (32°C), and 40% to 60% relative humidity.

Rating Number	Number of Chips
10	0
9	1
8	2-4
7	5-9
6	10-24
5	25-49
4	50-74
3	75-99
2	100-149
1	150-250
0	>250

Number Categories for chip ratings per SAE J400