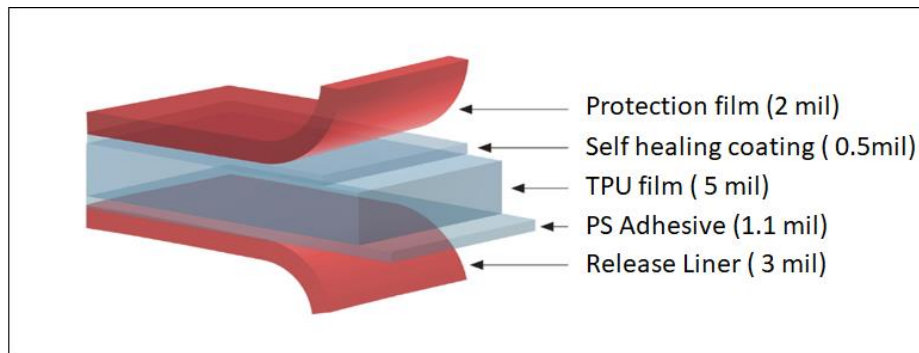


Garware PLUS Paint Protection Film: Technical Data Sheet

Garware Plus PPF consists of high-performance Pressure sensitive adhesive, ultra-clear TPU film and unique self-healing coating to protect automotive paint surfaces, from harmful effects of stone chips and abrasion.

Product Construction:



Nominal Thickness (TPU+ PSA+ SH Coating): $160 \pm 10\%$

Key Features:

- ✓ **Excellent optical clarity**
- ✓ **Excellent stain resistance**
- ✓ **Hydrophobic property**
- ✓ **Excellent chemical resistance**
- ✓ **Easy for installation on curved surfaces**

Performance Properties:

Sr. No.	Properties	Testing Standards	Measurement Unit	Typical Values
Mechanical Properties				
1	Peel strength: 20 min @24°C	FTM 01	kg/in	> 0.8 kg/ inch
2	Peel strength: 72 Hrs @24°C	FTM 01	kg/in	> 1.2 kg/ inch
3	Gloss at 60°	ASTM D-2457	GU	> 85
4	Tensile Strength	ASTM D-882	Mpa	>15
5	Elongation at break	ASTM D-882	%	>200
Aging Performance				
6	Heat ageing 80° C/ 24 Hrs	Internal	-	Pass- No Detrimental Effect
7	Water immersion 40°C/ 24 Hrs	Internal	-	Pass- No Detrimental Effect
Stain Resistance				
8	Water and soap resistance Drop test for 10 min	Internal	-	Pass- No Detrimental Effect
9	Battery acid Drop test for 10 min	Internal	-	Pass- No Detrimental Effect
10	Diesel Drop test for 10 min	Internal	-	Pass- No Detrimental Effect
11	SAE Motor oil Drop test for 10 min	Internal	-	Pass- No Detrimental Effect
12	Hydraulic oil Drop test for 10 min	Internal	-	Pass- No Detrimental Effect

Application Conditions:

Recommended vehicles surface and ambient air temperature should be between 20°C to 30°C. Application should be done in a dust free area and away from direct sunlight.

Storage Condition:

The Shelf life of this film is one year when stored in its original packaging at the temperature ranging from 18 to 26 ° C and Relative Humidity 50 to 60 %.

Notes:

The values listed herein are typical values. They are intended only as a source of information. Prior to application, the user must determine the suitability of the product for its intended use and assumes all risk and liability.
 Refer PPF application manual for more details.