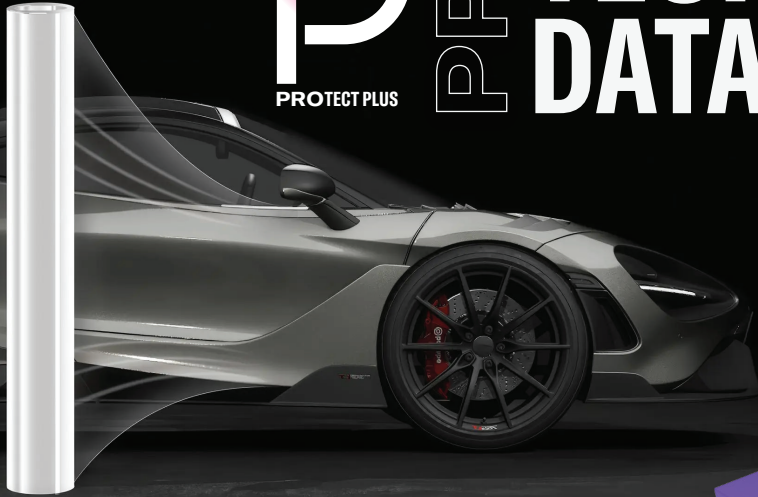




PPF

TECHNICAL DATA SHEET



Model	PPF ULTRA
Color	Transparent
Total Thickness	7.5mil/185±5um
Elongation at break	≥300%
Tensile Strength	>21.62Mpa
Peel Adhesion	1778 gf/inch
ΔE	≤1.2
Warranty	10 years
Hydrophilic	√
Self-Healing Type	Heat Healing
Temperature Resistance	-40°C -120°C
Gloss	>93.7
Liner	Polyester
Application Method	Wet Only
Application Temperature	55-90°F (13-32°C)
UV Test	1000 Hours Pass

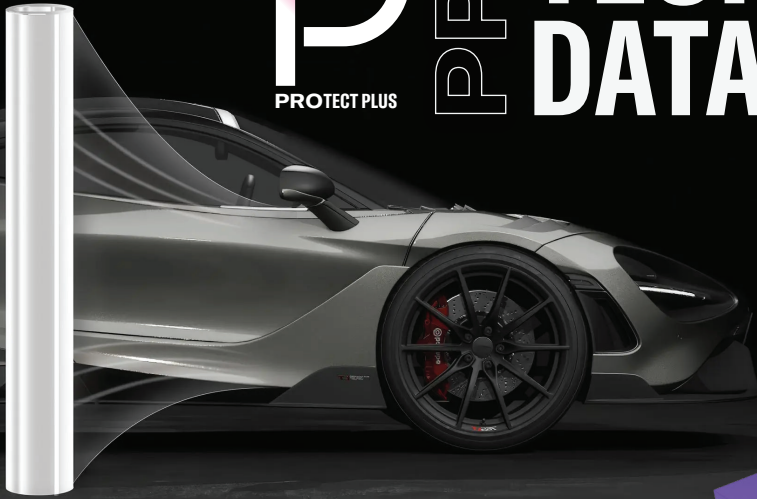
Aging Tests		
PROPERTIES	TYPICAL VALUES	TESTING CONDITIONS
Heat Aging	No Detrimental Effect	150 h @ 80°C
Xenon Weathering	ΔE < 2, 80% Gloss Retention	4,300 kj
EMMAQUA Aging	ΔE < 2, 88% Gloss Retention	27,500 MJ/m ² , 3 Year Exposure Equivalent

Stain Resistance		
PROPERTIES	TYPICAL VALUES	TESTING CONDITIONS
Acetone	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Gasoline	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Amor Al	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Diese	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Motor Oil	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Soap & Water	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
100% Isopropyl Alcohol	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change



PPF

TECHNICAL DATA SHEET



Model	PPF MATTE
Color	Clear Matte
Total Thickness	7.5mil/185±5um
Elongation at break	≥200%
Tensile Strength	>21.62Mpa
Peel Adhesion	2187 gf/inch
ΔE	≤1.3
Warranty	10 years
Hydrophilic	√
Self-Healing Type	Heat Healing
Temperature Resistance	-40°C -120°C
Gloss	>18.7
Liner	Polyester
Application Method	Wet Only
Application Temperature	55-90°F (13-32°C)
UV Test	1000 Hours Pass

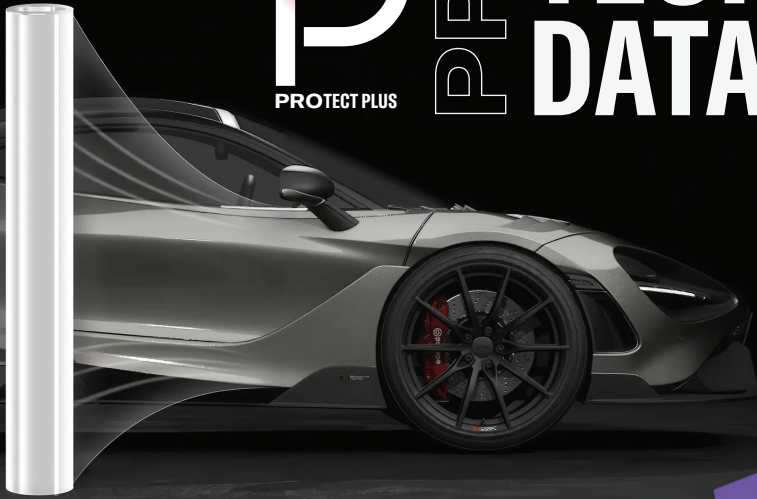
Aging Tests		
PROPERTIES	TYPICAL VALUES	TESTING CONDITIONS
Heat Aging	No Detrimental Effect	150 h @ 80°C
Xenon Weathering	ΔE < 2, 80% Gloss Retention	4,300 kj
EMMAQUA Aging	ΔE < 2, 88% Gloss Retention	27,500 MJ/m ² , 3 Year Exposure Equivalent

Stain Resistance		
PROPERTIES	TYPICAL VALUES	TESTING CONDITIONS
Acetone	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Gasoline	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Amor Al	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Diese	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Motor Oil	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Soap & Water	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
100% Isopropyl Alcohol	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change



PPF

TECHNICAL DATA SHEET



Model	PPF SPECTRA
Color	Multi Color
Total Thickness	7.5mil/185±5um
Elongation at break	≥300%
Tensile Strength	>21.62Mpa
Peel Adhesion	1778 gf/inch
ΔE	≤1.2
Warranty	5 years
Hydrophobic	✓
Self-Healing Type	Heat Healing
Temperature Resistance	-40°C -120°C
Gloss	>93.7
Liner	Polyester
Application Method	Wet Only
Application Temperature	55-90°F (13-32°C)
UV Test	1000 Hours Pass

Aging Tests		
PROPERTIES	TYPICAL VALUES	TESTING CONDITIONS
Heat Aging	No Detrimental Effect	150 h @ 80°C
Xenon Weathering	ΔE < 2, 80% Gloss Retention	4,300 kj
EMMAQUA Aging	ΔE < 2, 88% Gloss Retention	27,500 MJ/m ² , 3 Year Exposure Equivalent

Stain Resistance		
PROPERTIES	TYPICAL VALUES	TESTING CONDITIONS
Acetone	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Gasoline	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Amor Al	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Diese	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Motor Oil	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
Soap & Water	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change
100% Isopropyl Alcohol	No Detrimental Effect	Immerse for 35 min, check after 24 hours for change