

# Black Shine PPF

- ✓ Heat-healing
- ✓ High gloss finish
- ✓ Stain resistance
- ✓ Hydrophobic properties
- ✓ Super easy install
- ✓ 7 Year warranty

|                       | Performance Test             | Test Condition | Typical Values              |
|-----------------------|------------------------------|----------------|-----------------------------|
| PHYSICAL PROPERTIES   | TPU                          |                | 150μm                       |
|                       | Top Coat                     |                | 9μm                         |
|                       | Adhesive                     |                | 27μm                        |
|                       | Liner                        |                | 75μm                        |
|                       | Overall Thickness (μm)       |                | 186μm                       |
| MECHANICAL PROPERTIES | Tensile Strength             | ASTM D882      | > 13 mpa                    |
|                       | Elongation at Break          | ASTM D882      | > 300%                      |
| PEEL STRENGTH         | Initial Peel                 | 20min, RT      | > 400 N/m                   |
|                       | Normal State                 | 72h, RT        | > 400 N/m                   |
|                       | After Water Immersion        | 400h, 40°C     | > 400 N/m                   |
|                       | After Accelerated Weathering | 2000h, QUV     | > 400 N/m                   |
| AGING TEST            | Heat Aging                   | 16 days, 80°C  | (NDE) No Detrimental Effect |
|                       | Water Immersion              | 400h, 40°C     | (NDE) No Detrimental Effect |
|                       | Accelerated Weathering       | 2000h, QUV     | (NDE) No Detrimental Effect |
|                       | Boiling Water                | 5 min          | (NDE) No Detrimental Effect |
| GLOSS                 | Gloss                        | 60°            | > 85 GU                     |
| STONE CHIP RESISTANCE | Gravelometer                 | SAE J400       | Pass                        |
| SOLVENT RESISTANCE    | Water & Soap Spotting        | 24h            | (NDE) No Detrimental Effect |
|                       | Acid Spotting                | 24h            | (NDE) No Detrimental Effect |
|                       | Isopropyl Alcohol            | 24h            | (NDE) No Detrimental Effect |
|                       | Hexane/Toluene               | 24h            | (NDE) No Detrimental Effect |
|                       | Motor Oil                    | 24h            | (NDE) No Detrimental Effect |