

JB100 (Gloss Black) – PPF

- ✓ TPU materials
- ✓ Good in high glossy black
- ✓ Warranty 5years

| | Properties | Value | Test Method |
|---------------------|------------------------------|---|---|
| Physical Properties | Thickness (Substrate) | 165±15 μm | Thickness gauge |
| | Thickness (Overall) | 295±15 μm | Thickness gauge |
| | Elongation at Break | 205% | ASTM D412 |
| | Tensile Strength | 9.0 kgf/inch | ASTM D412 |
| Adhesion | Adhesion Force | 421 gf/inch | JIS K 6854-2 |
| | Type of PSA | Acrylic PSA | - |
| | Residual Adhesive | None | Put on painting plate then peel off with reverse direction after exposing to 80C for 24hr, -4C for 24hr, 20C for 12hr in sequence |
| Optical Properties | Gloss | 91.2% | Glossmeter (@60°) |
| | Surface Uniformity | No deformation (crater, pin-hall, fish-eye) | Put on orange peel test plate / Sensory Tester |
| | Transmittance | - | Put on black acrylic plate /Sensory Test |
| | | - | Put on transparent acrylic plate /Sensory Test |
| Surface Properties | Anti Scratch (5pt) | 3.5pt | Copper brushing @RT (20°C) |
| | Self-Healing @RT (1hr, 5pt) | 4.5pt | Copper brushing @RT (20°C) Stand-alone under RT (20°C) |
| | Thermal Recovery (70°C, 5pt) | 4.5pt | Copper brushing @RT (20°C) Exposure to hot water (80°C) |
| | Chemical Resistance | No damaged for 150seconds | Spraying carburetor cleaner Mixture of methanol, acetone, toluene and white spirit (#200) |

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|-------------------|-----------------------------|---|---|
| | | No damaged for 120seconds | DMF (Dimethylformamide) |
| | Hydrophobicity | R9~R10 | JIS P-8137 |
| | Anti-Fouling | Erasable | Permanent pen |
| | Stickiness @80C | Smooth not sticky | After aging under 80°C for 1hr. |
| Durability | For Self-Healing | Recover to 90% @20C 35~45min. at 1st year 40~50min. at 3rd year | Measure Self-Healing performance with time on stream |
| | For Surface Enthalpy | No any drop | After immerse in 70C water-bath for 24hrs |
| | For Anti-Fouling | No any drop | After immerse in 70C water-bath for 24hrs |
| | Discoloring | $\Delta E < 1.0$ | QUV Tester (6500W) 2000hrs Measure Lab |
| | Guarantee Period | 5years | for gloss, Crack, Residual Adhesive |