



北京宝捷拿科技发展有限公司  
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*PolyIDfilm®* Polycarbonate film overlay laserable ***polyIDfilm®IDL 21***

| Color           | Texture        | Thickness          | Common thickness | Application       |
|-----------------|----------------|--------------------|------------------|-------------------|
| semitransparent | Matte/polished | 0.035mm~<br>0.76mm | 0.1mm            | Overlay laserable |

## Product Datasheet

| Item       | Property                                | Value                            | Unit                  | Test Method |
|------------|-----------------------------------------|----------------------------------|-----------------------|-------------|
| Physical   | Density                                 | 1.2                              | g/cm <sup>3</sup>     | ISO 1183    |
|            | Haze                                    | >70                              | %                     | ASTM D1003  |
|            | Light Transmission                      | >80                              | %                     | ASTM D1003  |
|            | Roughness (Ra)                          | Polished: ≤0.1<br>Matte: 0.5~1.0 | μm                    | ISO 4587    |
| Mechanical | Tensile Strength                        | ≥55                              | MPa                   | ISO 527     |
|            | Elongation                              | >50                              | %                     | ISO 527     |
|            | Tensile Modulus                         | 2150                             | MPa                   | ISO 527     |
|            | Flexural Strength                       | 90                               | MPa                   | ISO 178     |
| Electrical | Dielectric Constant                     | 3                                | -                     | IEC60250    |
|            | @0.5mm<br>Resistant Puncture<br>Voltage | ≥30                              | KV/mm                 | IEC 60243   |
|            | Surface Resistivity                     | 1.00E+14                         | Ω/square              | IEC 60093   |
|            | Volume Resistivity                      | 1.00E+15                         | Ω-cm                  | IEC 60093   |
| Thermal    | Coefficient of Thermal<br>Expansion     | 5.8                              | ×10 <sup>-5</sup> /°C | ISO 11359   |
|            | Thermal Shrinkage (at<br>130°C)         | 0.5~0.7                          | %                     | ASTM D1204  |

Tip: This test data is for reference only, not as an absolute application index.



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