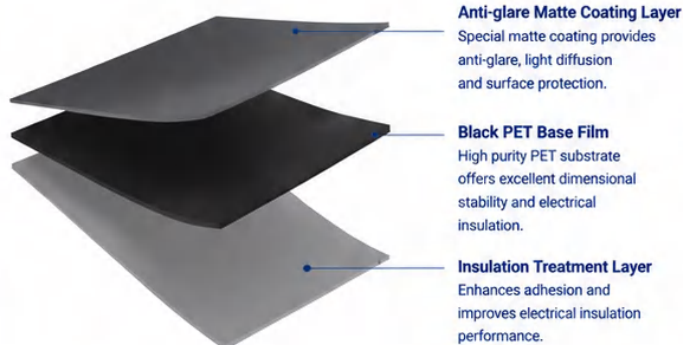




# BLACK MATTE INSULATION PET FILM

## ENGINEERING SPECIFICATION CHART

### 1. MATERIAL STRUCTURE



### 2. THICKNESS OPTIONS

| Thickness (μm) | 25 | 50 | 75 | 100 | 125 | Custom |
|----------------|----|----|----|-----|-----|--------|
| Tolerance (μm) | ±2 | ±3 | ±3 | ±4  | ±5  | ±5     |

### 3. OPTICAL & SURFACE PROPERTIES

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Light Shielding Rate | ≥ 99% (400–700 nm)                                              |
| Surface Gloss (60°)  | ≤ 5 GU (Matte)                                                  |
| Haze                 | 10% – 30%                                                       |
| Surface Resistivity  | 10 <sup>10</sup> – 10 <sup>12</sup> Ω/sq (Optional Anti-static) |
| Surface Treatment    | Matte Anti-glare / Optional Anti-static                         |
| Color                | Black (Matte)                                                   |

### 4. TYPICAL PROPERTIES

| Property                      | Test Method | Typical Value           |
|-------------------------------|-------------|-------------------------|
| Tensile Strength (MD)         | ASTM D882   | ≥ 180 MPa               |
| Tensile Strength (TD)         | ASTM D882   | ≥ 180 MPa               |
| Elongation at Break (MD)      | ASTM D882   | ≥ 100%                  |
| Elongation at Break (TD)      | ASTM D882   | ≥ 100%                  |
| Heat Shrinkage (150°C, 30min) | MD          | ≤ 1.0%                  |
| Heat Shrinkage (150°C, 30min) | TD          | ≤ 1.0%                  |
| Dielectric Strength           | ASTM D149   | ≥ 120 kV/mm             |
| Volume Resistivity            | ASTM D257   | ≥ 10 <sup>13</sup> Ω·cm |
| Continuous Use Temp.          | –           | -40°C ~ 150°C           |
| Short-term Resistance         | –           | Up to 180°C             |

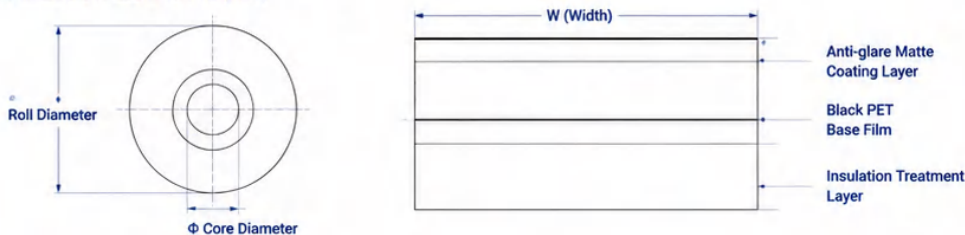
### 5. ROLL SPECIFICATIONS

|  |                 |                                                                                           |
|--|-----------------|-------------------------------------------------------------------------------------------|
|  | Roll Width (mm) | 300 / 500 / 600 / 800 / 1000 / 1200 / 1250<br>Custom Width Available<br>Tolerance: ± 2 mm |
|  | Roll Length (m) | 100 / 200 / 500 / 1000<br>Custom Length Available<br>Tolerance: ± 0.5%                    |

### 6. OPERATING TEMPERATURE

|  |                                                                     |
|--|---------------------------------------------------------------------|
|  | Continuous Use: -40°C ~ 150°C<br>Short-term Resistance: Up to 180°C |
|--|---------------------------------------------------------------------|

### 7. DIMENSIONAL DRAWING (mm)



### 8. STANDARD & COMPLIANCE

- RoHS Compliant
- REACH Compliant
- Halogen Free
- UL 94 V-2 (Optional)
- Custom specifications available upon request

### 9. APPLICATIONS



Typical values are based on test methods and should not be used for specification limits. Technical data subject to change without notice.