

# PS (Conductive) Film

**Formula:** High Impact Conductive Polystyrene

**Thickness:** 2mm

**Length 1:** 150mm

**Length 2:** 150mm

**Type:** Conductive polymer

**Colour:** Black

**CAS Number:** 9003-53-6

**UOM Code:** 070-708-35

**SKU:** 1000009865-group

**Product Code:** ST32-SH-000200

## Material Properties for Polymers

### Mechanical Properties

Element	Value
Elongation at break( % )	36
Tensile modulus( GPa )	1.6
Izod impact strength( J m <sup>-1</sup> )	999999No Break
Tensile strength( MPa )	27

### Thermal Properties

Element	Value
Heat-deflection temperature - 1.8MPa( C )	85
Coefficient of thermal expansion( x10 <sup>-5</sup> K <sup>-1</sup> )	4.5

### Physical Properties

Element	Value
Density( gcm <sup>-3</sup> )	1.04

### Electrical Properties

Element	Value
Surface resistivity( Ohm/sq )	10 <sup>2</sup> -10 <sup>7</sup>
Volume resistivity( Ohmcm )	10 <sup>2</sup> -10 <sup>7</sup>