

# Aluminum/Silicon Alloy Foil (Light Tight) (Al88/Si12)

**Formula:** Al88/Si12

**Thickness:** 1mm

**Length 1:** 100mm

**Length 2:** 100mm

**UOM Code:** 834-488-38

**SKU:** 1000021169-group

**Product Code:** AL13-FL-000100

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	20
Modulus of elasticity( GPa )	71.1
Tensile strength( MPa )	241.5

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	5.56

### Thermal Properties

Element	Value
Melting point( C )	577
Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )	121@23°C
Coefficient of thermal expansion( $\times 10^{-6} \text{K}^{-1}$ )	20.4@20-100°C

### Physical Properties

Element	Value
Density( $\text{gcm}^{-3}$ )	2.66