

Aluminum/Magnesium Alloy Foil (Light Tight) (Al97/Mg 3)

Formula: Al97/Mg 3

Temper: As Rolled

Thickness: 0.5mm

Length 1: 50mm

Length 2: 50mm

UOM Code: 024-763-91

SKU: 1000002920-group

Product Code: AL01-FL-000170

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	45-100
Elongation at break(%)	25
Modulus of elasticity(GPa)	65-75
Izod impact strength(J m ²¹)	30-50
Shear strength(MPa)	125-175
Tensile strength(MPa)	200-350

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	4.5-5.7
Temperature coefficient(K ²¹)	0.0019-0.0026

Physical Properties

Element	Value
Density(gcm ³)	2.67

Thermal Properties

Element	Value
---------	-------

Thermal conductivity($W m^{-1} K^{-1}$) 135-160@23°C

Coefficient of thermal expansion($\times 10^{-6} K^{-1}$) 23.5@20-100°C