

Metric-To-English Conversion Formulas

Includes formulas tailored to geotextile use

AREA

Hectares	x 2.471	= Acres
Kilometers ²	x 0.3861	= Square miles
Meters ²	x 0.247x10 ⁻³	= Acres
Meters ²	x 10.76	= Square feet
Meters ²	x 1.196	= Square yards
Millimeters	x 1.55x10 ⁻³	= Square inches

ASPHALT RETENTION

Liters/m ²	x 0.2208	= Gallons per yard ²
Liters/m ²	x 3.145	= Ounces (fluid) per feet ²

COST

U.S. \$/m ²	x 0.8361	= U.S. \$/yard ²
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DENSITY

Kilonewtons/m ³	x 63.69	= Lbs per ft ³ (pcf)
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FORCE

Kilonewton	x 0.2247	= Kips (1000 lbs)
Newton	x 0.2247	= Pound (lbs)

FORCE PER UNIT LENGTH (e.g., geotextile modulus)

Kilonewtons per meter	x 57.14	= Lbs per inch
Newtons per meter	x 0.0685	= Lbs per foot

HYDRUALIC FLOW RATE

Liters/minute/m ²	x 0.0246	= Gallons/minute/ft ²
Liters/second/m ²	x 1.473	= Gallons/minute/ft ²
Meters ³ /minute/m ²	x 24.51	= Gallons/minute/ft ²

LENGTH, DISTANCE

Centimeter	x 0.3937	= Inches
Kilometers	x 0.6211	= Miles
Meters	x 3.279	= Feet
Meters	x 1.093	= Yards
Microns	x 0.0394	= Mils
Millimeters	x 0.0394	= Inches
Millimeters	x 39.37	= Mils

MASS

Grams	x 0.0353	= Ounces
Kilograms	x 2.204	= Pounds (Lbs)
Metric ton (tonne)	x 2,204	= Pounds (Lbs)
Metric ton (tonne)	x 1.1023	= Ton

MASS PER UNIT AREA

Grams/m ²	x 0.0295	= Ounces (mass) per sy ²
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PRESSURE, STRESS AND MODULUS

Kilopascals	x 0.1450	= Lbs per in ² (psi)
Pascals	x 0.0209	= Lbs per ft ² (psf)

TEMPERATURE

(° Celsius x 9/5) + 32	= ° Farenheit
[(° Kelvin - 273) x 9/5] + 32	= ° Farenheit

TRANSMISSIVITY

Liters/minute/m	x 0.0108	= Feet ² /min
Liters/minute/m	x 0.0805	= Gallons/min/ft
Meters ² /second	x 4,831	= Gallons/min/st
Meters ² /second	x 646	= Yards ² /minute

VOLUME

Cubic centimeters	x 0.0610	= Cubic inches (in ³)
Liters	x 0.0353	= Cubic feet (ft ³)
Liters	x 0.2642	= Gallons
Meters ³	x 35.34	= Cubic feet (ft ³)
Meters ³	x 1.308	= Cubic yards (yd ³)

METRIC PREFIXES COMMON FOR GEOTEXTILE AND CIVIL ENGINEERING CONSTRUCTION

Prefix	Symbol	Multiples	Examples
kilo	k	1,000	1 km = 1000 meters
centi	c	0.01	100 cm = 1 meter
milli	m	0.001	1000 mm = 1 meter
micro	μ	1x10 ⁻⁶	1,000,000 μ = 1 meter

