



塑膠單位換算表

抗折、抗張、耐壓縮強度及模數			
MPa	Psi	kg/cm ²	kg/in ²
1	145	10.19	101945.15
6.9×10^{-3}	1	0.0703	703.07
9.8×10^{-2}	14.22	1	10000
9.8×10^{-6}	1.422×10^{-3}	0.0001	1

衝擊強度		
ft-lb/in	J/m	kg-cm/cm
1	53.35	5.45
0.0187	1	0.102
0.183	9.803	1



各種常用計量單位換算表

英制 (British)	米制 (Metric)	國際制 (SI Metric)
1 ft	=0.3048 m	
1 in	=2.54cm	=25.4mm
1 thou	=0.0254 mm	=25.4μm
1 yd ²	=0.8361 m ²	
1 ft ²	=0.0929 m ²	
1 in ²	=6.4516 cm ²	=654.16 mm ²
1 yd ³	=0.7645 m ³	
1 ft ³	=0.0283 m ³	=28.317 dm ³
1 in ³	=16.387 cm ³	
1 gal	=4.5459 litres	=4.5459 dm ³
°F	= $(1.8 \times ^\circ\text{C}) + 32$	
1 ton	=1.0160 tomes	
1 lb	=0.4536 kg	
1 oz	=28.3495 g	
1 lbf	=0.457 kgf	4.4482 N
1 lbf/in ²	=0.0703kgf/cm ²	=6.8948kN/m ²
1 lb/ft ³	=16.018 kg/m ³	
1 lb/in ³	=27.68 g/cm ³	=27.68 Mg/m ³
1 Btu	=251.996 cal	=1.0550 KJ

米制 (Metric)	英制 (British)	國際制 (SI Metric)
1 m	=3.2808 ft	
1 cm	=0.3937 in	
1 mm	=0.03937 in	
1 m ²	=1.1959 yd ²	
1 m ²	=10.7639 ft ²	
1 cm ²	=0.1550 in ²	
1 m ³	=1.3079 yd ³	
1 m ³	=35.3147 ft ³	
1 cm ³	=0.061 in ³	
1 litre	=0.2199 gal	=1 dm ³
1 cm ³	=0.0000353 ft ³	
°C	= $((^\circ\text{F}-32) \times 5) \div 9$	
1 tonne	=0.9842 ton	
1 kg	=2.2046 lb	
1 g	=0.0353oz	
1 kgf	=2.2046 lbf	=9.8066 N
1 kgf/cm ²	=14.2233 lbf/in ²	=98.0665kN/m ²
1 kg/m ³	=0.0624 lb/ft ³	
1 g/cm ³	=0.0361 lb/in ³	