



## ROTATIONAL MOULDING FORMULAS

### Calculating part weight assuming a given wall thickness

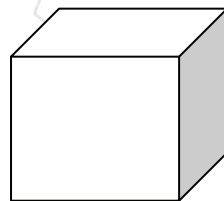
(Applicable in accurately determining resin weight for moulding any type of plastic part)

#### METRIC STANDARD

Formulas  
Where

Part Weight = Area (cm<sup>2</sup>) x Thickness (cm) x Density (gm/cm<sup>3</sup>)  
Area = surface area of part (cm<sup>2</sup>)  
Thickness = estimated or desired wall thickness (cm)  
Density = resin density (gm/cm<sup>3</sup>)

Sample Calculation



L x W x 2 sides	1,500cm <sup>2</sup>
L x H x 2 sides	1,200cm <sup>2</sup>
H x W x 2 sides	1,000cm <sup>2</sup>
<b>Total Surface Area</b>	<b>3,700cm<sup>2</sup></b>

Area	3,700cm <sup>2</sup>
Desired thickness	0.3cm (3mm)
Resin density	0.939 gm/cm <sup>3</sup>
Wt.	3,750 x 0.3 x 0.939
<b>Wt.</b>	<b>1,042 gm</b>

Note: This is approximate only and an allowance of 5-10% should be added to account for extra thickness in corners and profiles

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