

Gravimetric dosing - Cost Benefit analysis



1. Moulding Machine Operation Time

Days of week production	7	Days
Average number of Hours of production per day	22	Hours
Working Weeks per year	50	Weeks
Total number of production hours pa on one line	7,700	Hours

2. Moulding Machine Sample Settings

Total Kg per hour output of one production line	200	Kg/Hr
Total Kg consumed on 1 line per annum	1,540,000	Kg/Annum
Regrind	40	%
Natural - up to	100	%
Required Colour ratio	2.0	%

3. Masterbatch - Accurate Dosing

Masterbatch Cost / kg	£2.00	kg pa	Value	Saving
Before: Actual Average Masterbatch consumption of	2.5 %	38,500	£77,000.00	
After: Required Masterbatch consumption achieved of	2.0 %	30,800	£61,600.00	£15,400.00

5. PAYBACK SUMMARY



TOTAL SAVINGS PA	£15,400.00
COST OF EQUIPMENT (as per quotation)	£6,000.00

PAYBACK (weeks)	20.3
PAYBACK (years)	0.4