Gravimetric Blending - Cost Benefit analysis

1. Moulding Machine Operation Time

Days of week production	6	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	**6,600**	**Hours**

2. Moulding Machine Sample Settings

Total Kg per hour output of one production line	**50**	**Kg/Hr**	
Total Kg consumed on **1 line** per annum	**330,000**	**Kg/Annum**	
		Cost per Kg	Sense check Per tonne
Regrind	10%		
Natural - up to	88%	£2.37	£2,370.37
Desired Colour ratio	2%	£2.00	£2,000.00
	100%	%	

3. Masterbatch - Accurate Dosing by weight not volume

			kg pa	Value	Saving
Before: Actual Average Masterbatch consumption of	2.5%	%	8,250	£16,500.00	
After: Required Masterbatch consumption achieved of	2.0%	%	6,600	£13,200.00	**£3,300.00**

4. Regrind Control

Not colouring regrind

Total Kg of Regrind pa	**33,000**	**Kg**			
Therefore, Amount of Colour saved from not colour Regrind	**660**	**Kg**			**£1,320.00**

Material saved using regrind

Material saving by using regrind	**33,000**	**Kg**			**£78,222.22**

5. PAYBACK SUMMARY

TOTAL SAVINGS PA	**£82,842**