

RECP Best Practices Catalogue

*Reduction of offcuts in reforming films
after laminating*

Developed within the framework of MED TEST II



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is
funded by the European Union

Best Practice - Reduction of offcuts in reforming films after laminating

SECTOR:	Paper, printing and plastic products
SUBSECTOR:	Printing and service activities related to printing
PRODUCTS	Plastic films (90%), packaging (10%)
CATEGORY	Good Housekeeping
APPLICABILITY	Process
COMPANY SIZE	Between 75 and 100



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Description of the Problem (Base Scenario):

Irreducible offcut film edges, inherent to the laminating process.
These offcuts in reforming incur a loss of 3 to 5 cm on each side.
On the basis of analysis, on average there is 2.8% waste. Applying this rate to the 480 tons of annual laminate, this represents approximately 13.4 tons, or a total cost of:
 $\text{€ } 3.5/\text{kg} \times 13,440 \text{ kg/year} = \text{€ } 47,040/\text{year of losses}$

Description of the Solution

Negotiate standard breadth of widths with the supplier, or with customers of bag widths close to the standards of the laminating film supplier.
The laminating film widths are 50 mm by 50 mm; to reduce the offcuts we must offer customers packaging widths near reform plans with the least possible offcuts.
Reductions in offcuts for reforming, a loss of 3 to 5 cm on each side. This offcut should be reduced to an offcut to the unlaminated edge, or 1 cm on each side.
Start a negotiation process with the most important customers, with an earnings sharing proposal: Win/Win objective

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Economic Gain

Based on the August 2017 report, there is an average waste of 2.8%. Applying this rate to 480 tons of annual laminate, this represents about 13.44 tons, or € 47,650/year

It is possible to reduce this rate of waste on the order of 1% or to a final loss of 1.8% by optimising the widths with the cutting plan.

Which is a net savings of $480 \text{ tons} \times (2.8\% - 1.8\%) = 4.8 \text{ tons/year}$ and € 17,018/year

NB. The process-related offcuts are irreducible (a minimum of at least 1%)

Environmental Gain

Reduction of the amount of waste generated by about 4.8 tons per year.

Health and Safety Impact

Waste reduction.



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Investment & Financial Indicators	The proposed solution has no cost since it involves negotiating directly with customers and suppliers
Suppliers	Suppliers of laminating film
Other aspects	The reduction of the price of the film which has significant positive impact
Implementation and new indicator	Scheduled for 2018



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