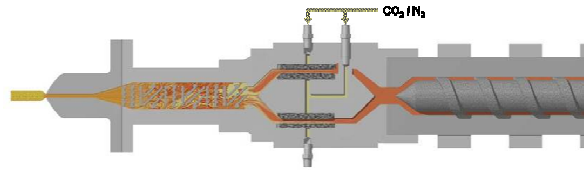


SULZER

optiFOAM

Payback Calculation



Data to fill in:

Investment OF [€]	100'000
Extruder throughput (solid) [kg/hr]	220
Material price [€/kg]	0.50
Expected density reduction [%]	25
Extruder throughput (foam) [kg/hr]	165
CBA content [weight %]	1.4
CBA price [€/kg]	3.70
PBA content [weight %]	0.1
PBA price [€/kg]	2.00
Nucleator [weight-%]	0.25
Nucleator price [€/kg]	3.80
Production time [hr/day]	24
Production time [days/month]	30
Expected additional density reduction [%]	10.0

Case 1: Substitute solid material

Material savings [€/hr]	27.50
PBA running costs [€/hr]	1.90
Payback time [hr]	3906
Payback time [days]	163
Payback time [month]	5.4
Savings per month	EUR 18'434

Case 2: Substitute CBA at equal density reduction

PBA running costs [€/hr]	1.90
CBA running costs [€/hr]	8.55
Payback time [hr]	15039
Payback time [days]	627
Payback time [month]	20.9
Savings per month	EUR 4'788

Case 3: Substitute CBA with additional density reduction

Additional material savings [€/hr]	11.00
PBA running costs [€/hr]	1.90
CBA running costs [€/hr]	8.55
Payback time [hr]	5666
Payback time [days]	236
Payback time [month]	7.9
Savings per month	EUR 12'708