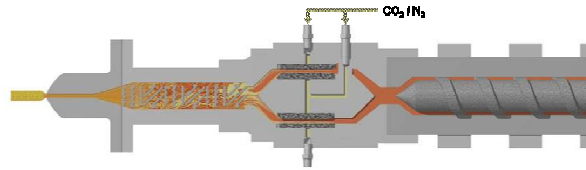


SULZER

optiFOAM

Payback Calculation



Data to fill in:	
Investment OF [€]	100'000
Extruder throughput (solid) [kg/hr]	200
Material price [€/kg]	0.85
Expected density reduction [%]	40
Extruder throughput (foam) [kg/hr]	120
CBA content [weight %]	1.5
CBA price [€/kg]	4.20
PBA content [weight %]	0.1
PBA price [€/kg]	2.00
Nucleator [weight-%]	0.30
Nucleator price [€/kg]	4.20
Production time [hr/day]	24
Production time [days/month]	30
Expected additional density reduction [%]	5.0

Case 1: Substitute solid material	
Material savings [€/hr]	68.00
PBA running costs [€/hr]	1.75
Payback time [hr]	1509
Payback time [days]	63
Payback time [month]	2.1
Savings per month	EUR 47'699

Case 2: Substitute CBA at equal density reduction	
PBA running costs [€/hr]	1.75
CBA running costs [€/hr]	7.56
Payback time [hr]	17218
Payback time [days]	717
Payback time [month]	23.9
Savings per month	EUR 4'182

Case 3: Substitute CBA with additional density reduction	
Additional material savings [€/hr]	8.50
PBA running costs [€/hr]	1.75
CBA running costs [€/hr]	7.56
Payback time [hr]	6989
Payback time [days]	291
Payback time [month]	9.7
Savings per month	EUR 10'302