

419.348.0550

abtinfo@abtBlend.com

www.abtblend.com



The OptiMISER System

Polyethylene Blend Formulating & Optimizing

The OptiMISER System is a proven blend formulation and material characterization solution. The system combines Advanced Blending Technologies expertise in polyethylene blend formulization, advanced material characterization and formulation software.

Properly engineered resin blends perform with the same characteristics and reliability as prime materials but at much lower costs. Using the OptiMISER you can easily manufacture high-value products from a wide range of recycled low-cost material streams.

Software features:

- Selects blends from your inventory of available polyethylene
- Can be set for multiple material properties (as few as two and as many as seven)
- Takes into account quantities of available materials and their costs.
- Provides full on-screen results and analysis.

The OptiMISER System provides:

- Rapid low cost material characterization
- Initial software programming
- Easy-to-use operator instructions and start-up assistance

The OptiMISER System is used today in processes ranging from blow molding, sheet extrusion, injection molding, pipe and profile extrusion.

Blending formulation is a complex and multifaceted process. The properties that determine the success of every formulation are different for each process and manufacturer. With The OptiMISER System, all the complex issues are handled upfront, keeping the manufacturing process simple.

The OptiMISER System's software algorithms are built from decades of discoveries in resin behaviors, feedstock blends and formulation experience. Once the OptiMISER is set up, you get blend solutions -- that work -- in seconds.

The OptiMISER System Continued

Reducing material and processing costs can provide the strategic advantage you need in today's competitive market. The OptiMISER System opens the door to those opportunities by formulating blends using lower-cost recycled polyethylene resins. Eliminating trial-and-error.

How much can you save?
Contact us to find out.

Solution_ID	Sbs	MB	Density	Cost	ESCR	Polyprop%	Cost	Lbs
1	4, 7	0.131	0.947	6	77.006	0.00	0.405	56572
2	1, 4, 7	0.130	0.948	6	72.799	0.00	0.406	19506
3	4, 5, 7	0.135	0.948	6	72.301	0.00	0.407	69211
4	1, 4	0.129	0.95	6.493	82.929	0.00	0.415	88532
5	1, 4, 7	0.127	0.947	6	75.946	0.00	0.418	58490
6	1, 4, 5	0.129	0.95	6.759	62.752	0.00	0.425	82413
7	4, 6, 7	0.134	0.947	6	76.58	0.00	0.418	57624
8	1, 4, 7	0.135	0.948	6	72.929	0.00	0.419	71412

ID	MaterialType	Vendor	Product	MB	Density	Cost	ESCR	Polyprop%	Cost	Available_Lbs	Used_Lbs	Remaining_Lbs	Percentage
4	HDPE PCR-RYS	D & K Plastics	PO 3764	0.072	0.948	13.8	88	0.00	0.42	43267	16708	24559	26.9
7	HDPE RYS	UT Plastics	PO 7834	0.356	0.947	4.7	74	0.00	0.42	43879	43879	0	53.1
1	HDPE RYS	ECO Plastics	PO 3421	0.21	0.952	3.1	45	0.00	0.41	46676	4954	39922	30

	MB	Density	Cost	ESCR	Polyprop%	% Blend	# Comp
Min	0.00	0.946	6	40	0	18	1
Max	0.25	0.95	14	100	2	100	3

Blend Solutions screen showing blends prioritized by least cost

Material Sourcing

Advanced Blending Technologies offers a sourcing service that locates materials that will meet all—or part—of your needs. We have extensive Post Industrial and Post Consumer Polyethylene sources for HDPE, MDPE, LLDPE LDPE, HMWPE, in regrind, reprocessed and densified film form.

With our sourcing service you stay in total control. You determine the pricing you want to pay, the volume and type of material needed. We will find a low cost source, and provide you with the specific details you need to issue the purchase order. Dealing directly with the vendor allows you to avoid typical broker commissions.

One more way to help you improve your bottom line. Call us today.



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