



Ecorr[®] RBR

Reclaim Butyl Rubber

Ecorr[®] RBR70

Ecorr[®] RBR7050

Butyl Reclaim Ecorr® RBR70; a cost saving additive

Allowing you a thinner inner liner. So less compound at less costs. How?

Firstly you will find the obvious compound savings when using Ecorr® RBR70.

Secondly by using Ecorr® RBR70 in your halobutyl inner liner compound you improve the adhesion to the carcass and simultaneously you improve the air permeability.

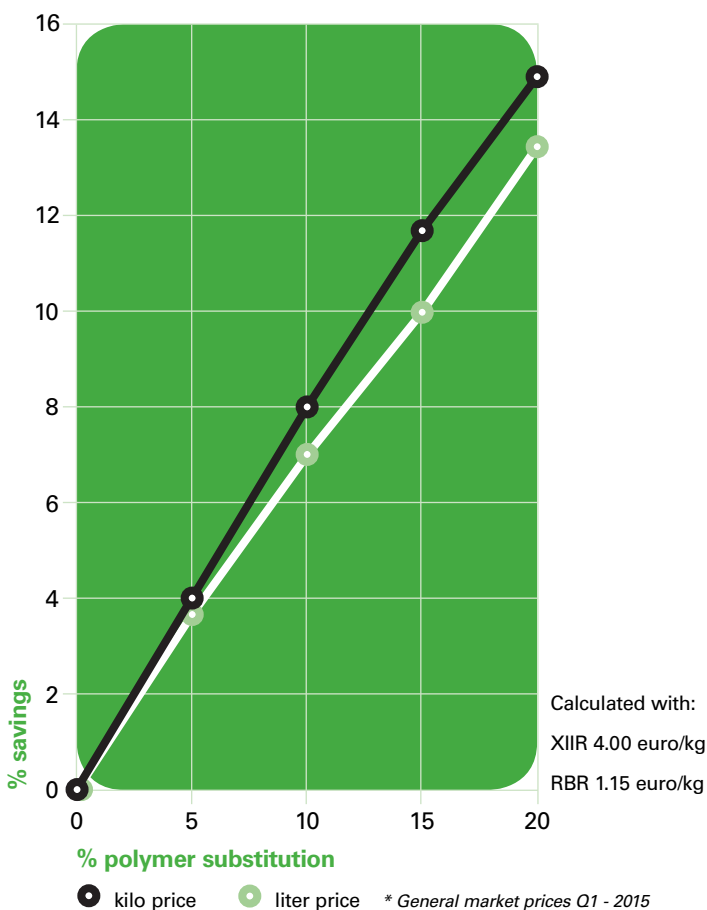
Last not least, the usage of Ecorr® RBR70 provides better ageing resistance. Especially the dynamic properties are improved.

Value is therefore added next to the easy cost saving.

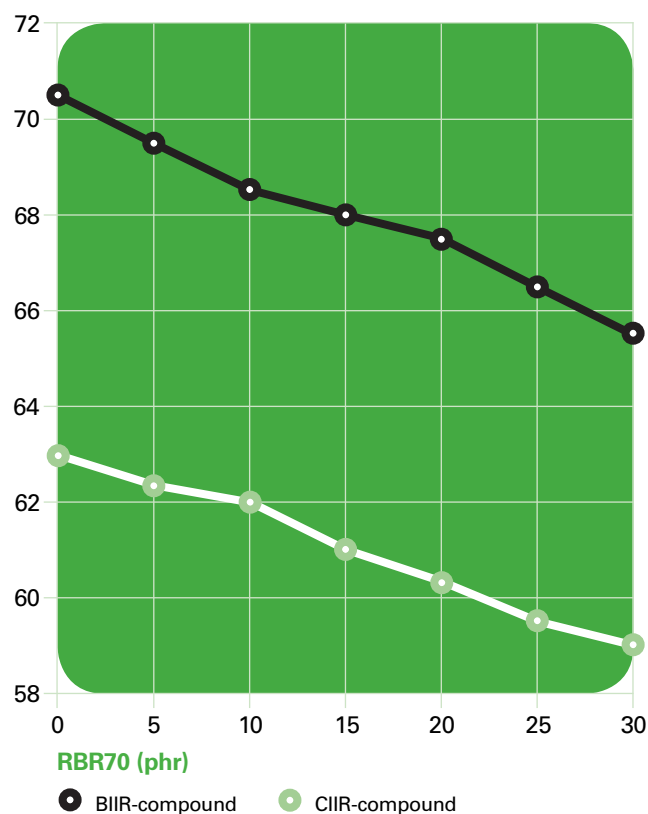
Summary

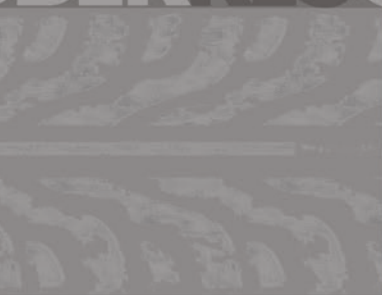
- Less compound at less costs
- Improved adhesion
- Improved air permeability
- Improved ageing resistance

Cost savings



Air permeability [a.m² / Pa.s]





Grades of Ecorr[®] RBR

Key grades			RBR70	RBR7050
Acetone-extract	%	ASTM D297-18	10 ± 2	12 ± 3
Ashes	%	ASTM D297-18	6 ± 2	7 ± 3
Carbon Black	%	ASTM E 1131	32 ± 2	32 ± 3
Polymer content	%	ASTM E 1131	51 ± 3	50 ± 4
Density	kg/m	ASTM D297-15	1160 ± 20	1160 ± 30
Hardness	Shore A	ASTM D2240	51 ± 4	49 ± 4
Tensile strength	MPa	ASTM D412	7 ± 1	> 5.7
Elongation at break	%	ASTM D412	> 460	> 400
Mooney viscosity	ML(1+4)@100°C	ASTM D1646	30 - 45	30 - 45
Strained			40 mesh	40 mesh
Physical appearance			Black slabs of 10 kg (60 x 40 x 4 cm) Each slab is packed in a blue coloured low melting foil	
Curing:	30 min@160°C		Packaging:	
	Reclaim (R.H.C.)	100 phr	Reinforced cardboard boxes	
	ZnO	5 phr	Net weight	[kg] 1000
	TMTD	1 phr	Net weight	[pounds] 2204
	Sulphur	2 phr	Metal crates	
	MBT	0,5 phr	Net weight	[kg] 1080
			Net weight	[pounds] 2380

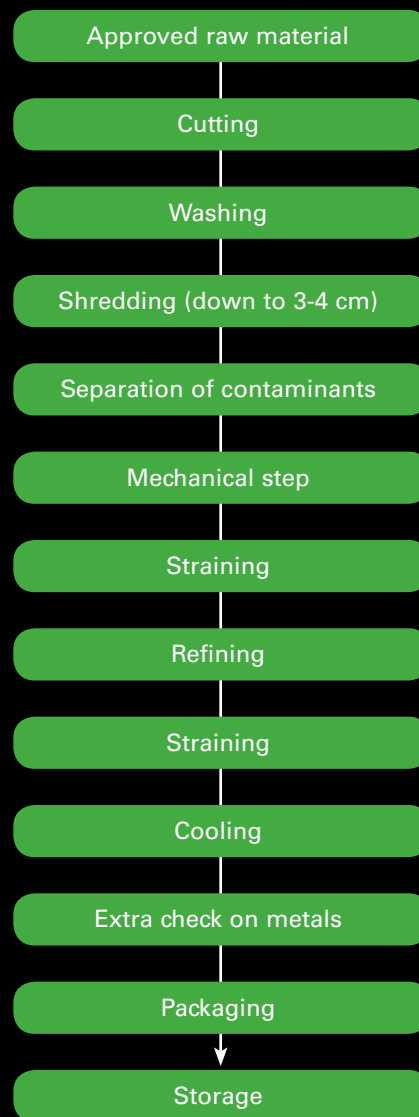
Advantages

- Lower raw material costs.
- Lower power consumption and other processing costs resulting from shorter mixing cycles.
- Low calendering, mixing and extrusion temperature.
- Reduction of die-swell.
- Better air venting properties between bladder and inner liner during vulcanisation.
- Reduced air permeability in an inner liner (results in reduction of inner liner thickness).
- Improved flex fatigue resistance.

Recommended other brochures: Reclaim in Compounds.

RBR process

- The exclusive feedstock for Ecorr® RBR reclaim mainly consists of butyl innertubes.
- The scrap is collected from a wide network of certified suppliers and is segregated by supplier to ensure identification and traceability.
- In the first phase of our continuous production process the scrap feedstock undergoes a number of cleaning steps, during which it is rendered absolutely free of sand, steel, stones and other contaminants.
- In the second phase, the reclaiming step breaks the sulphur crosslinks within the butyl rubber.
- During subsequent straining and refining steps, non-homogeneous particles are removed from the reclaimed rubber to ensure high quality.
- The result is a rubber compound that can be used as a masterbatch to which a vulcanisation system is added, or it may be added to a virgin compound, typically at 10-50 phr.



Applications overview

Key grades	RBR70	RBR7050
Inner liner compounds	P	
Cable bedding compounds	M/P	P
Adhesives		P

M = Masterbatch P = Part of a virgin compound

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