



Ecorr[®] RBR

Regular Butyl rubber Reclaim

Ecorr[®] RBR70

Ecorr[®] RBR72

Butyl Reclaim Ecorr[®] RBR70; a cost saving additive

Allowing you a thinner innerliner. 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 innerliner 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

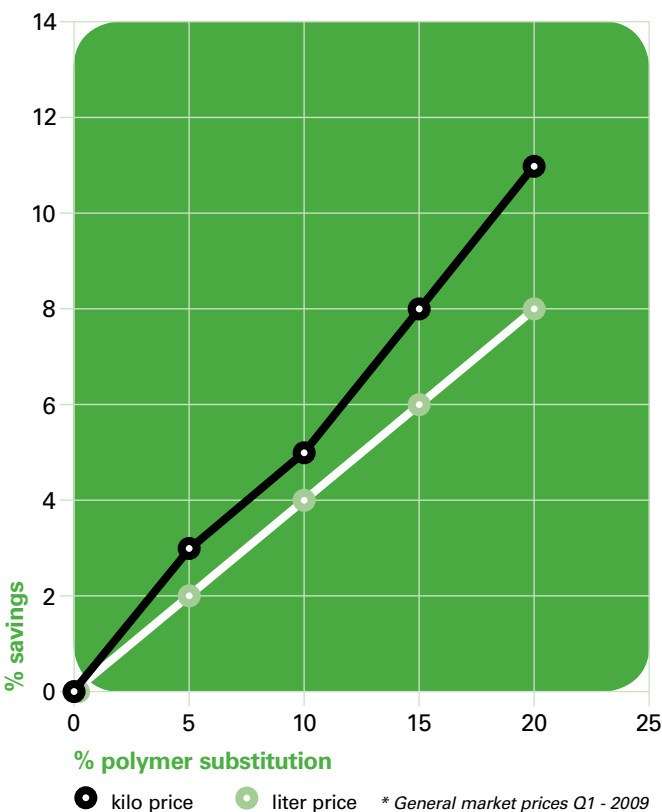
ageing resistance. Especially the dynamic properties are improved.

Value is therefore added next to the easy cost saving.

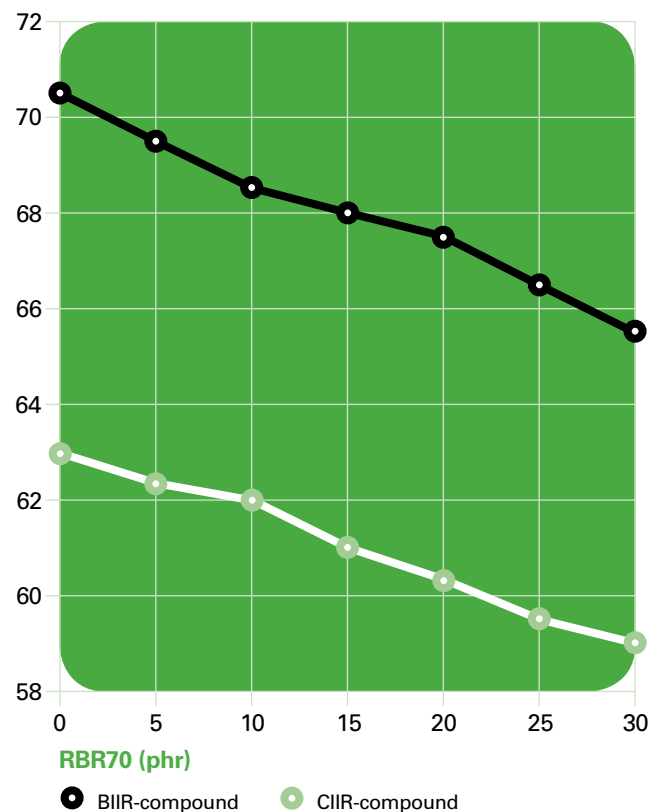
Summary

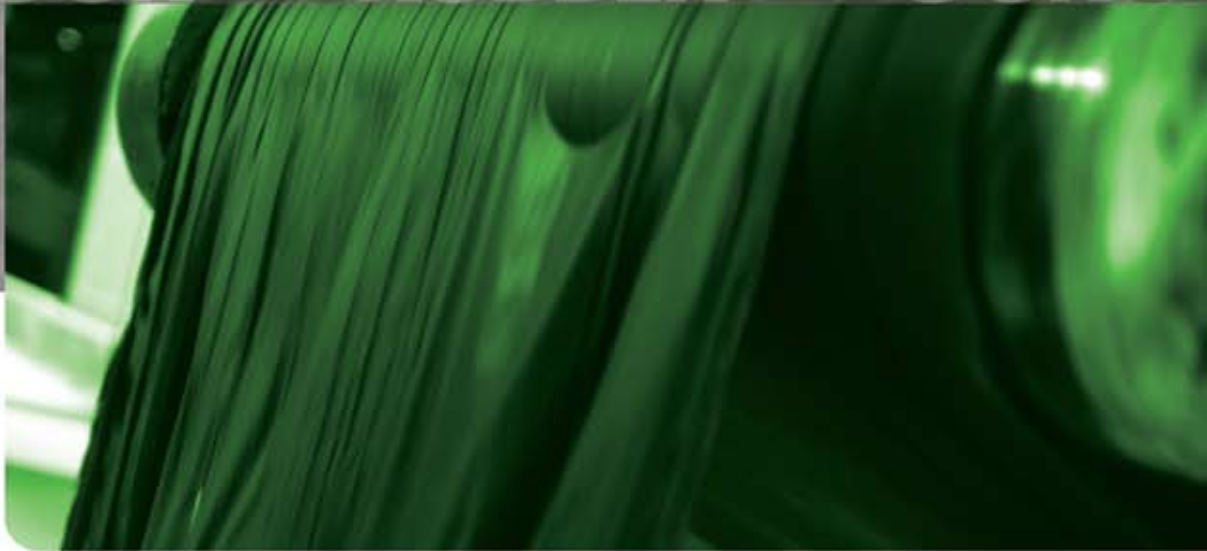
- Less compound at less costs
- Improved adhesion
- Improved air permeability
- Improved ageing resistance

Cost savings



Air permeability [a.m² / Pa.s]





Grades of Ecorr[®] RBR

Key grades			RBR70	RBR72
Acetone-extract	%	ASTM D297-18	11 ± 2	12 ± 3
Ashes	%	ASTM D297-18	4 ± 2	7 ± 3
Carbon Black	%	ASTM E 1131	33 ± 2	32 ± 3
Polymer content	%	ASTM E 1131	53 ± 3	50 ± 4
Density	kg/m	ASTM D297-15	1140 ± 20	1140 ± 30
Hardness	Shore A		49 ± 4	
Tensile strength	MPa	ASTM D412	> 7.5	
Elongation at break	%	ASTM D412	> 480	
Mooney viscosity	ML(1+4)@100°C	ASTM D1646	30 - 45	30 - 50
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

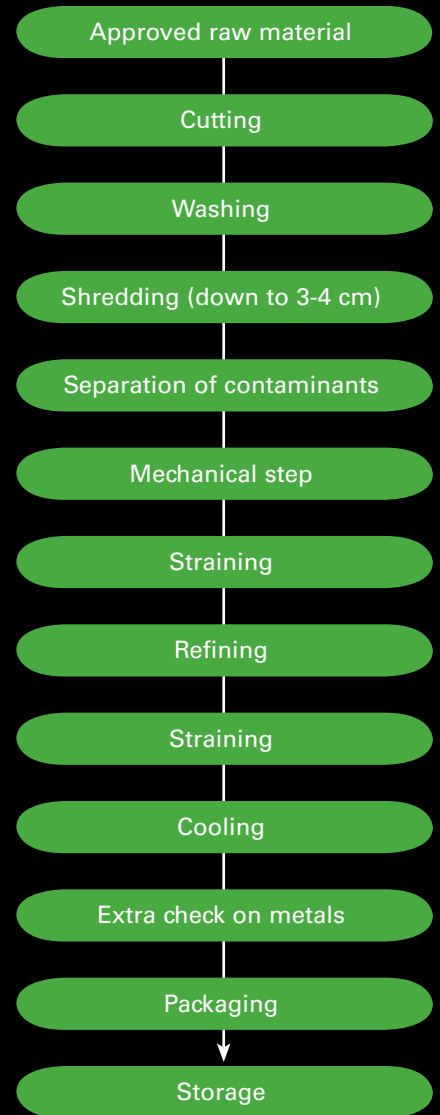
Advantages

- Lower raw material costs.
- Lower power consumption and other processing costs resulting from shorter mixing cycles.
- Low calendaring, mixing and extrusion temperature.
- Reduction of die-swell.
- Better air venting properties between bladder and innerliner during vulcanisation.
- Reduced air permeability in an innerliner (results in reduction of innerliner 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	RBR72
Innerliner compounds	P	
Cable bedding compounds	M/P	P
Adhesives		P

M = Masterbatch P = Part of a virgin compound

Rubber Resources B.V.



Lage Frontweg 2A - 6219 PD Maastricht - The Netherlands - P.O. Box 437 - 6200 AK Maastricht - The Netherlands

Phone: +31 (0)43 - 329 04 44 - Fax: +31 (0)43 - 325 71 91 - E-Mail: info@rubber-resources.com

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means without the prior written permission of Rubber Resources.

No responsibility is assumed by Rubber Resources for any injury and / or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein.