

## Bio-resin for RUBA-Bio-caps

An eco-friendly BIO cap should meet following requirements:




- The one of the most important requirement is food approval, so that it can be used also as a packaging in the pharmaceutical and cosmetics industry.
- The caps should be priced competitively to our standard products
- The used material should be able to be processed with our injection molding tools and standard processes without 100% control of finished caps.

Today there are is a whole range of bio-based resins on the market. In the last few years we were carried out several tests and we continue further with a new ones. However, we note that the not all Bio-resins are ideally suited for injection moulding technology.

The following table shows the succesful results of our experiments: We advise and suggest to carried out to provide a sampling before of start of series production.

Resin & Resing descibtion	Granulate manufacturer	Tested caps
<p><b>ArcBiox B2004</b> PLA</p> <p>Bio-content 59% (will be 90% end 2019) <b>Food approved</b> <b>Good alternative for PPC</b></p>	<p>ABMc <a href="https://abmcomposite.com/">https://abmcomposite.com/</a></p>	<p>H-241162 Deluxe Line</p> 
<p><b>Braskem SHC7260</b> High-density PE*</p> <p>BCC (Biobased carbon content): 94.5% determinated according to ASTM D6866)</p>	<p>Braskem <a href="https://www.braskem.com.br/">https://www.braskem.com.br/</a></p>	<p>H-24116 Standard Classic Line</p> 

<p><b>Terralene WF3516</b> Wood fibre PE</p>	<p>FKuR Kunststoff GmbH <a href="https://fkur.com/marken/terralene/terralene-wf-3516/">https://fkur.com/marken/terralene/terralene-wf-3516/</a></p>	<p>H-3415xx My Cap Line</p> 
<p><b>Terralene PP3505</b> BIO-Carbon content 33%</p>	<p>FKuR Kunststoff GmbH <a href="https://fkur.com/marken/terralene/terralene-hd3505/">https://fkur.com/marken/terralene/terralene-hd3505/</a></p>	<p>H-3415xx My Cap Line</p> 
<p><b>Biotec GS 2189</b> Vegetable base/Starch</p>	<p>Biotec GmbH Germany <a href="http://www.biotec.de/bioplast/bioplast-gs-2189">http://www.biotec.de/bioplast/bioplast-gs-2189</a></p>	<p>H-381531 Standard Classic</p> 
<p><b>Arboblend 1548X</b> Wood base (Lignin)</p>	<p>Tecnaro GmbH Germany <a href="http://tecnaro.de/arboblendr/we rkstoffdaten.html">http://tecnaro.de/arboblendr/we rkstoffdaten.html</a></p>	<p>H-3415xx My Cap Line</p> 

<p><b>Gialene 733PJ</b> Vegetable base</p>	<p>Roquette <a href="http://www.roquette.com">www.roquette.com</a> <a href="http://www.gialene.com">www.gialene.com</a></p>	<p>H-341566 Deluxe Line</p> 
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**\* To Green PE:**

*In comparison to conventional polyethylene, the main difference is that the ethanol used for Green PE is not produced using crude oil, but instead is derived from sugarcane. Therefore each ton of Green PE produced captures up to 3.09 tons of CO2 thus helping to reduce harmful greenhouse gas emissions*

Are you confronted with new customer requests?

Based on your individual need and requirements, we help you to take these challenges and will be happy to test some new materials for you.

### Your contacts at RUBA Thermoplast AG:

Phone: +41 (0) 61 871 08 08

Fax: +41 (0) 61 871 08 47

Sales: [office@ruba-thermoplast.ch](mailto:office@ruba-thermoplast.ch)

Homepage: [www.ruba-caps.eu](http://www.ruba-caps.eu)