For plastic modification ARLANXEO produces polybutadiene by a solution polymerization process which enables the production of pure, clear, and virtually gel free products.

Our Lithium-based Butadiene Rubbers (Li-BR) are manufactured via an anionic process producing highly uniform polymers that are particularly suited for the use in high impact polystyrene (HIPS) and for the mass-solution polymerization of acrylonitrile-butadiene-styrene resins (m-ABS).

Besides our widely used Li-BRs, we have succeeded in the production of Neodymium-based Butadiene Rubbers (Nd-BR) for the HIPS application. These Nd-BRs allow for the production of HIPS resins with a higher rubber efficiency and superior properties. Similar mechanical properties (impact strength, modulus) can be reached with less amount of Nd-BR. Consequently, the mechanical properties of HIPS resins produced with Nd-BR are similar (with less amount of rubber) or even superior (with similar amount of rubber) to those of resins based on corresponding BRs.

<table>
<thead>
<tr>
<th>Lithium Butadiene Rubber for HIPS (Li-BR)</th>
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<tbody>
<tr>
<td><strong>Name</strong></td>
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<tr>
<td>Buna™ CB 550</td>
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<tr>
<td>Buna™ CB 550 T</td>
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<tr>
<td>Buna™ CB 550 IP</td>
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<td>Buna™ CB 565 T</td>
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<tr>
<th>Neodymium Butadiene Rubber for HIPS (Nd-BR)</th>
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<tr>
<td><strong>Name</strong></td>
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<tr>
<td>Buna™ CB 728 T</td>
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</tbody>
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