Neodymium catalyzed polybutadienes are highly elastic polymers with a very high degree of resistance to dynamic stress, and retain these properties even at extremely low temperatures. They have a very high 1,4-cis content together with a very low 1,2-vinyl content, a relatively narrow molecular weight distribution and a low degree of branching.

Nd-RB’s micro- and macrostructure properties make them well suited for high performance golf balls requiring a high coefficient of restitution.

Nd-BRs can be blended with NR for goods having thick sections and requiring high resistance to reversion, e.g. buffers, roll covers needing high abrasion resistance, seals, profiles and other goods.

Provided that the compounds are formulated and processed correctly, the vulcanizates have good resistance to aging, reversion, abrasion and flex cracking, good low temperature flexibility and high resilience.

**APPLICATIONS**

Typical applications of Nd-BRs are:
- tires
- conveyor belts
- caterpillar tread blocks
- golf balls
- footwear soles
- V-belts

**PRODUCT PORTFOLIO**

<table>
<thead>
<tr>
<th>Name</th>
<th>Production Site</th>
<th>Mooney (ML (1+4) @ 100 °C. MU)</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buna™ CB 22</td>
<td>Orange, Dormagen, Pt. Jérôme, Singapore, Cabo</td>
<td>63</td>
<td>highly linear</td>
</tr>
<tr>
<td>Buna™ CB 24</td>
<td>Orange, Dormagen, Pt. Jérôme, Singapore, Cabo</td>
<td>44</td>
<td>linear</td>
</tr>
<tr>
<td>Buna™ CB 25</td>
<td>Dormagen</td>
<td>44</td>
<td>long chain branched</td>
</tr>
<tr>
<td>Buna™ CB 29 MES</td>
<td>Dormagen</td>
<td>37</td>
<td>MES-oil extended</td>
</tr>
<tr>
<td>Buna™ CB 29 TDAE</td>
<td>Dormagen</td>
<td>37</td>
<td>TDAE-oil extended</td>
</tr>
</tbody>
</table>
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