



## EASIER PROCESSING

### Nd-BRs

### BUNA™ Nd EZ

**New Nd-BR grades: a breakthrough that bridge the gap between processability and superior properties.**

The Buna® Nd EZ family of products is a new generation of high-cis polybutadienes that present a modified polymeric structure that enables marked improvements in the processing performance of rubber compounds but without sacrificing dynamic properties. This new family of polybutadienes catalyzed by Neodymium has a very high cis 1,4 content combined with a low 1,2 vinyl content and a narrow molecular weight distribution but has an increased degree of branching when compared to our standard Nd-BR family of products. This increased degree of branching leads to a lower final compound viscosity and improved downstream processing on

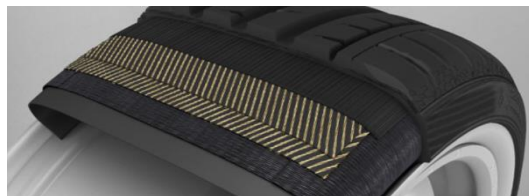
the mill or extruder for example. Subsequently the modified structure leads to improved polymer phase distribution and therefore improved filler distribution which results in excellent dynamic properties. These new grades of easy processing Nd-BR overcome the conflict between superior tire properties and challenging processing.

One of the key properties of these rubbers is their narrow polydispersity which leads to higher molar mass. In technical terms, the modification scheme of the new Nd-BR grades Buna® Nd 22 EZ and Buna® Nd 24 EZ is designed to create long chain branching, which accelerates the fast and reliable incorporation of fillers into the rubber matrix and improves processing.

## APPLICATIONS

Typical applications are:

- tires
- retreads
- conveyor belts
- anti-vibration bushings

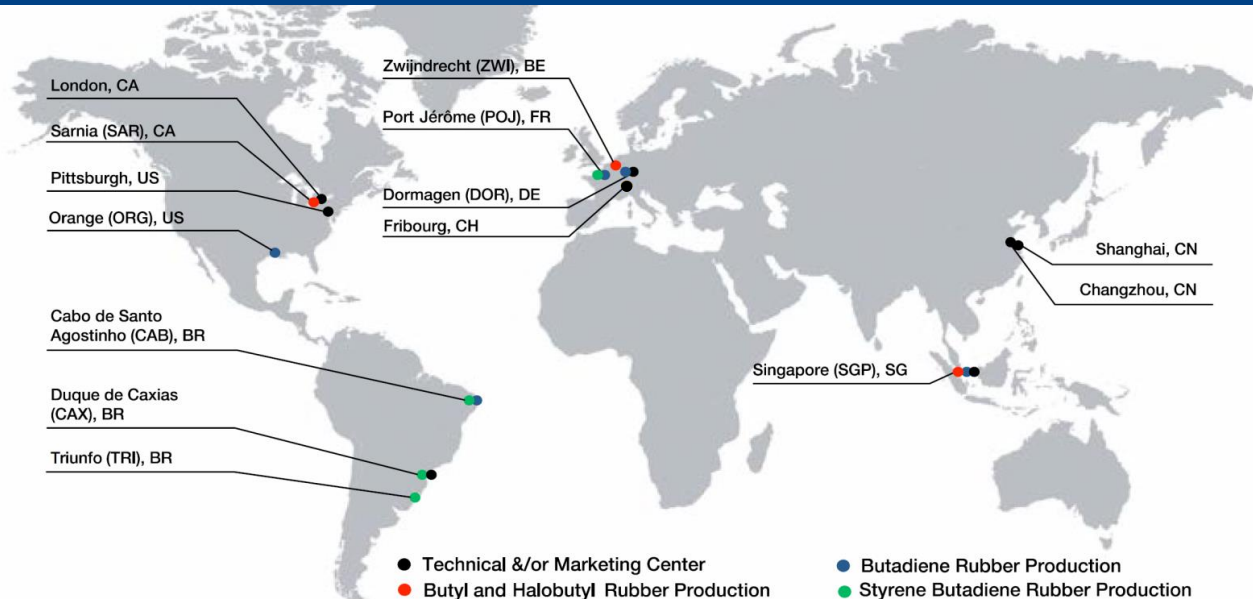


They can be blended with NR for goods having thick sections requiring high resistance to reversion such as buffers, truck tire treads and roll covers needing high abrasion resistance, seals and other goods. They can be blended with SSBR to improve abrasion resistance and rolling resistance in tire tread sections. Provided that the compounds are formulated and processed correctly, the vulcanizates have good resistance to aging, reversion, abrasion and flex cracking with good low temperature flexibility and high resilience.

## PRODUCT PORTFOLIO

Name	Production Site	Mooney (ML (1+4) @ 100 °C, MU)	Remark
Buna™ Nd 22 EZ	Dormagen	63	modified & long chain branched
Buna™ Nd 24 EZ	Dormagen	44	modified & long chain branched

# TIRE AND SPECIALTY RUBBERS GLOBAL FOOTPRINT



## WE ARE HAPPY TO SUPPORT YOUR BUSINESS

### NORAM

#### Technical Service

Sharon Guo

E-mail: [sharon.guo@arlanxeo.com](mailto:sharon.guo@arlanxeo.com)

Phone: +1 519 953 1728

#### Sales

Jay Capelli

E-mail: [jay.capelli@arlanxeo.com](mailto:jay.capelli@arlanxeo.com)

Phone: +1 412 809 2237

### EMEA

#### Technical Service

Wilfried Braubach

E-mail: [wilfried.braubach@arlanxeo.com](mailto:wilfried.braubach@arlanxeo.com)

Phone: +49 221 8885 1085

#### Sales

Marco Eira

E-mail: [marco.eira@arlanxeo.com](mailto:marco.eira@arlanxeo.com)

Phone: +41 26 422 8354

### APAC

#### Technical Service

Esther Han

E-mail: [esther.han@arlanxeo.com](mailto:esther.han@arlanxeo.com)

Phone: +65 6725 5709

#### Sales

JooSang Kim

E-mail: [joosang.kim@arlanxeo.com](mailto:joosang.kim@arlanxeo.com)

Phone: +65 6725 5872

### LATAM

#### Technical Service

Marcus Moutinho

E-mail: [marcus.moutinho@arlanxeo.com](mailto:marcus.moutinho@arlanxeo.com)

Phone: +55 21 2677 1219

#### Sales

Sergio Botafogo

E-mail: [sergio.botafogo@arlanxeo.com](mailto:sergio.botafogo@arlanxeo.com)

Phone: +55 21 2677 1344

Please contact us for additional information or visit us at  
[www.tsr.arlanxeo.com](http://www.tsr.arlanxeo.com)

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