



BUNA™ CB POLYBUTADIENE RUBBER FOR GOLF BALLS

A golf ball needs to have good dynamic properties. In order for the ball to fly several hundred yards and land where the player wants it to, with as little energy as possible lost when the golf club strikes the ball. This is where the right butadiene rubber found in the core of the golf ball comes into play.

The rebound elasticity is of crucial importance to rubber items, since it is an indicator of how economically the elastomer uses energy when it undergoes deformation.

A good rebound elasticity means that a rubber item releases most of the mechanical energy put into it without being transformed into heat when it returns to its original shape after being subjected to a load.

ARLANXEO BUNA® CB high cis Neodymium and Cobalt Butadiene Rubber (BR) used in the cores of high-quality balls have very good rebound elasticity and are the polymers of choice for this application.

ARLANXEO PRODUCT PROPERTIES

High-Cis Neodymium BR	Mooney [MU]	Remark
BUNA® CB 21	73	highly linear
BUNA® CB 22	63	highly linear
BUNA® CB 24	44	linear

High-Cis Cobalt BR	Mooney [MU]	Remark
BUNA® CB 1221	53	branched
BUNA® CB 1203	43	branched
BUNA® CB 1220	40	highly branched

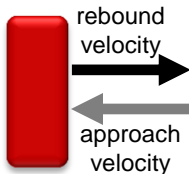
KEY PARAMETERS

Compression



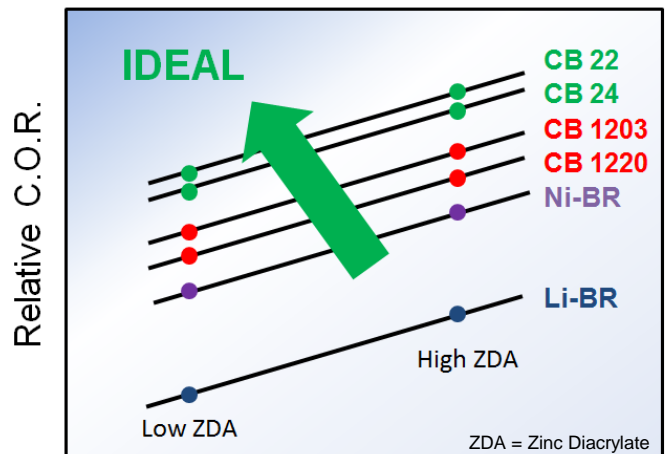
- Greater deformation under load due to lower modulus

Coefficient of Restitution (C.O.R)



$$C.O.R. = \frac{\text{rebound velocity}}{\text{approach velocity}}$$

- Indicator of distance due to energy lost



Relative Compression

*These items are provided as general information only. They are approximate values and are not considered part of the product specifications. Please contact your regional representative for additional information.

TIRE AND SPECIALTY RUBBERS GLOBAL FOOTPRINT



WE ARE HAPPY TO SUPPORT YOUR BUSINESS

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Note: The information contained in this publication is current as of May 2017.

Please contact ARLANXEO USA LLC to determine if this publication has been revised.