

## Buna CB 55 GPT

### Product Description

Buna CB 55 GPT is a solution medium cis polybutadiene polymer produced with an organo lithium catalyst.

CAS No.: 9003-17-2

The rubber is protected by a stabiliser system which is in chemical compliance with the FDA regulation §177.1640, the recommendation VI of the Federal Institute for Risk Assessment and the Commission Directive 2002/72/EC respectively its further amendments including 2004/19/EC.

**Production Plant: Cabo de Santo Agostinho -PE- Brazil**

### Supply Form

Colourless rubber bales wrapped in polystyrene foil.

### Raw Material Properties

| Property                              | Nominal Value | Unit    | Test Method     |
|---------------------------------------|---------------|---------|-----------------|
| Volatile Matter                       | max. 0.5      | % by wt | ASTM D 5668     |
| Mooney Viscosity                      | 52,5          | ME      | ASTM D 1646     |
| Solution viscosity (5.43% in toluene) | 165           | cP      | IPL 10.005      |
| Styrene insoluble wet gel             | max. 200      | ppm     | IPL 10.154      |
| Color (APHA ), Pt-Co                  | max. 7.5      |         | IPL 10.005      |
| Williams recovery                     | 2.0           | mm      | ASTM D 926      |
| Trans 1,4 content                     | 53            | % by wt | IR-Spectroscopy |
| Cis 1,4 content                       | 36            | % by wt | IR-Spectroscopy |
| Vinyl content                         | 11            | % by wt | IR-Spectroscopy |
| Dissolving Time                       | max. 240      | min     | IPL 10.153      |
| Dry gel (180 mesh)                    | max. 100      | ppm     | IPL 10.376      |

### Other Product Features

| Property   | Typical Value                                                                                                                                                                                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use        | Buna CB 55 GPT is used for the production of HIPS. It is used either alone or in blend with Buna CB 565 T or with SB-Polymers to achieve polystyrene with improved surface gloss. In blends with Buna CB 70 GPT it is possible to attain an improved stress cracking resistance. |
| Solubility | Buna CB 55 GPT rubber is soluble in aliphatic hydrocarbons, styrene, toluene, tetrahydrofurane, cyclohexane, methylene chloride and 1,1,1-trichloro-ethane, and is insoluble in alcohols and water.                                                                              |



Buna CB 55 GPT

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |    |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|
| Storage Life/Conditions | Buna CB 55 GPT should be stored in a cool, dry place at temperatures below 40°C. Exposure to light must be avoided. Under suitable conditions the product is stable for 12 months.                                                                                                                                                                                                                                              |       |    |
| Packaging               | Bale weight                                                                                                                                                                                                                                                                                                                                                                                                                     | 31    | kg |
|                         | Nominal crate weight                                                                                                                                                                                                                                                                                                                                                                                                            | ~1116 | kg |
| Marking                 | Grade / Lot number / Crate number / Net weight                                                                                                                                                                                                                                                                                                                                                                                  |       |    |
| Product Safety          | <p>Literature on the health and safety aspects of this product has been published. Before working with this product, personnel must be familiarised with its hazards, proper use, and handling. The available information is summarised in the Safety Data Sheet.</p> <p><b>These raw material properties are typical and, unless specifically indicated otherwise, are not to be considered as delivery specification.</b></p> |       |    |

These raw material properties are typical and, unless specifically indicated otherwise, are not to be considered as delivery specification.

## Buna CB 55 GPT

Buna CB for plastic modification is a Registered Trademark of LANXESS Deutschland GmbH

Issue number: Buna CB 55 GPT / Date of issue: February 05, 2009

**Health and Safety Information:** Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets, product information and product labels. Consult your LANXESS representative in Germany or contact the Health, Safety, Environment and Quality Department (HSEQ) of LANXESS Germany or - for business in the USA - the LANXESS Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

**Regulatory Compliance Information:** Some of the end uses of the products described in this publication must comply with applicable regulations, such as the FDA, BfR, NSF, USDA, and CPSC. If you have any questions on the regulatory status of these products, contact your LANXESS Corporation representative, the LANXESS Regulatory Affairs Manager in Pittsburgh, PA or the Health, Safety, Environment and Quality Department (HSEQ) of LANXESS Deutschland GmbH in Germany.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information.

Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.