

# X\_Butyl<sup>®</sup> BB X2

<b>Product Description</b>	A non-staining, brominated isobutylene-isoprene copolymer with high Mooney viscosity
<b>Supply Form</b>	Off-white bales

## Raw Material Properties

Property	Nominal Value	Unit	Test Method
Mooney Viscosity ML (1+8) 125°C	46 ± 4	MU	ISO 289 / ASTM D 1646
Volatile Matter	max. 0.7	wt %	ISO 248 / ASTM D 5668
Total Ash	max. 0.7	wt %	ISO 247 / ASTM D 5667
Bromine Content	1.80 ± 0.20	wt %	(*)
Antioxidant non-staining	min. 0.03	wt %	(*)
Stabilizer	1.3 ± 0.3	wt %	(*)

(\*) standard test method available on request

## Other Product Features

Property	Typical Value		
<b>Density</b>	0.93	g/cm <sup>3</sup>	
<b>Cure Characteristics</b>	Rotorless cure meter conditions: 160°C, 1° arc, 1.7 Hz die oscillation, 30 min running time, no preheat		
	ML	5.5 ± 0.8 dNm	ISO 6502 / ASTM D 5289
	MH	14.3 ± 2.2 dNm	ISO 6502 / ASTM D 5289
	ts1	2.7 min.	ISO 6502 / ASTM D 5289
	tc90	8.6 ± 2.2 min.	ISO 6502 / ASTM D 5289
<b>Test Formulation</b>	MIM mixed compound: according to ISO 7663 / ASTM D 3958		
	X_Butyl <sup>™</sup> BB X2	(phr)	100
	IRB #8 black		40
	NBS Stearic acid		1
	NBS Zinc oxide		5

# X\_Butyl<sup>®</sup> BB X2

<b>Packaging</b>	34 kg bales in dispersible EVA film (Melting point max. 108°C, ASTM D3418 or Vicat softening point max. 80°C, ISO 306/ASTM D 1525) or strippable PE film (Melting point max. 105°C, ASTM D 3418); pallets of 30 bales (1020 kgs) and 36 bales (1224 kgs)
<b>Storage Life/Conditions</b>	2 years from date of production at temperatures not exceeding 35°C and protected against sunlight.
<b>Product Safety</b>	Relevant safety data and references as well as the possibly necessary warning labels can be found in the corresponding safety data sheet, which is available on <a href="http://www.butyl.com">http://www.butyl.com</a> .

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

**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 ARLANXEO products mentioned in this publication. For materials mentioned which are not ARLANXEO 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 ARLANXEO representative for further information.

**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 ARLANXEO representative.

**NAFTA - ARLANXEO USA LLC**  
111 RIDC Park West Drive, Pittsburgh, PA 15275, United States

**EMEA/LATAM - ARLANXEO Switzerland S.A.**  
Chamblieux-Parc 12, PO Box 173, 1763 Granges-Paccot, Switzerland

**APAC - ARLANXEO Singapore Pte.Ltd.**  
3A International Business Park, #07-10/18 ICON @ IBP Tower B, Singapore 609935

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 and any warranty of non-infringement is expressly disclaimed.

Issue number: Nr.5 / Date of issue: August 01, 2014 / Previous issue from May 1, 2014 / Information current as of date of issue. Please contact your ARLANXEO representative to determine if this publication has been revised.