ARLANXEO
Performance Elastomers

# THERBAN® 4309

## Product Description

A fully hydrogenated butadiene acrylonitrile copolymer (less than 1% residual doublebonds), which provides vulcanizates with superior resistance to heat, ozone and excellent resistance to non - polar hydrocarbon fluids including those containing aggressive additives. With this level of unsaturation, Therban 4309-based compounds can only be vulcanized with peroxides or high-energy radiation. The incorporation of a crosslinking co-agent is recommended for optimized physical properties of both unaged and aged vulcanizates. High molecular weight provides for capacity of high plasticizer and filler loads.

## Supply Form

Bales

## Raw Material Properties

| Property | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Mooney Viscosity ML (1+4) 100°C | 100 ± 7 | MU | ISO 289/ASTM D 1646 |
| Acrylonitrile content | 43 ± 1.5 | wt % | ISO 24698-1 |
| Residual double bonds | ≤ 0.9 | % | IR Spectroscopy |
| Volatile matter | ≤ 0.49 | wt % | ISO 248/ASTM D 5668 |

## Other Product Features

| Property | Typical Value | | |
|---|---|---|---|
| Specific gravity | 0.98 | | |
| Total Ash | ≤ 0.49 | wt % | ISO 247/ASTM D 5667 |
| Stabilizer | Non-staining | | |
| Solubility | Soluble in MEK | | |
| Color | Light brown | | |

Performance Elastomers

# THERBAN® 4309

| | |
|---|---|
| Packaging | 25 kg bales wrapped in blue PE-film, strippable / disersible (melting point of film = 85 - 110°C, Vicat softening point = 71°C, 0.08 mm thick), pallets of 20 bales (500kg) |
| Shelf life | 36 months from date of production at temperatures not exceeding 35°C in dry conditions; exposure to light has to be avoided |
| Product Safety | Relevant safety data and references as well as the possibly necessary warning labels are to be found in the safety data sheet. |

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

THERBAN® is a Registered Trademark of LANXESS Deutschland GmbH

This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided – especially that contained in our safety data and technical information sheets – and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

Issue number: ARL 01 / Date of issue: May 19, 2016 / Previous issue from LXS 08 January 01, 2010 / Information current as of date of issue. Please contact your ARLANXEO representative to determine if this publication has been revised.