

Therban® Connect

YOUR ONLINE CONTACT FOR TECHNICAL
NEEDS ACROSS THE REGIONS

<http://connect.therban.com>

ts / online

Your link to our technical and HSEQ team

Your personalized link with our Therban® technical people and HSEQ services.

Have an easy overview of all requests answered and running for your company on Regulatory Affairs and Product Safety.

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Your link to the Therban® data base

Find Therban® product information like product and safety data sheets, survey of grades and packaging information.

Have access to Therban® HSEQ relevant information on regulatory affairs and product safety.



Therban®

EMEA

ARLANXEO Deutschland GmbH
High Performance Elastomers
Dormagen, Germany
hnbr.emea@arlanxeo.com

APAC

ARLANXEO High Performance Elastomers
(Changzhou) Co. Ltd. Shanghai Branch
High Performance Elastomers
Shanghai, P.R. China
hnbr.apac@arlanxeo.com

NAFTA

ARLANXEO USA LLC
High Performance Elastomers
Pittsburgh PA, USA
hnbr.nafta@arlanxeo.com

LATAM

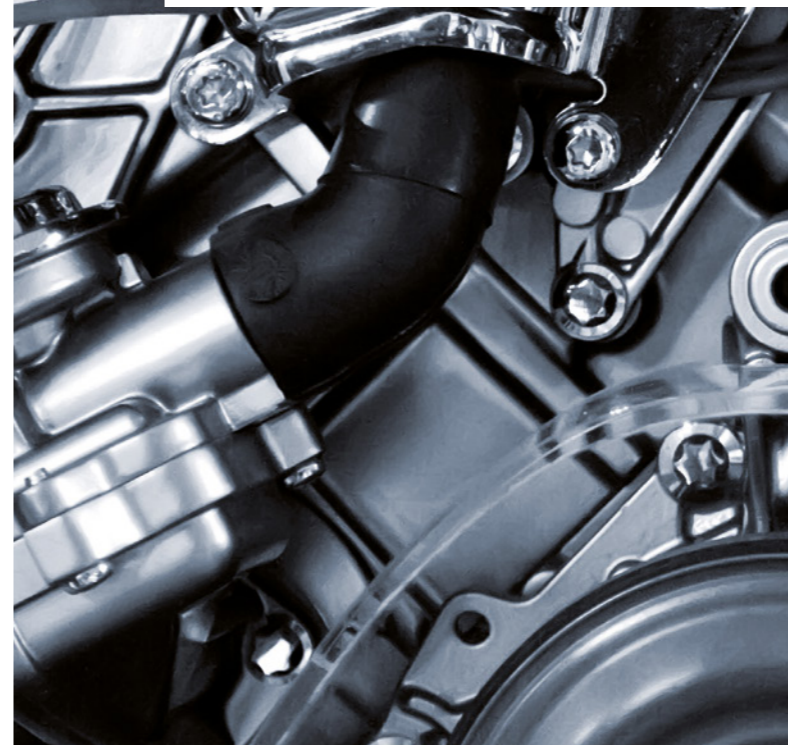
ARLANXEO Brasil S.A.
High Performance Elastomers
Sao Paulo, Brazil
hnbr.latam@arlanxeo.com

www.therban.com
therban@arlanxeo.com

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ARLANXEO

Performance Elastomers



**THERBAN®
GRADES
CHARACTERISTICS**

Aggressive environments, explosive decompression and high mechanical stresses – Therban® has the answer.

www.arlanxeo.com

**THERBAN® – THE ANSWER
TO YOUR NEEDS**

Key advantages

- high resistance to oil and grease
- ability to function at temperatures from approx. -40 °C to 165 °C
- superior performance in aggressive fluids such as power steering fluids, automatic transmission fluids, engine oils, diesel and brake fluids
- a unique range of thermally stable grades with both partial and full saturation, ranging from 17 % ACN to 44 % ACN
- broad range of Therban® AT grades for improved processing



Therban® grade slate

Therban® grades	Acrylonitrile wt - % ACN	Mooney viscosity ML (1+4) 100°C	Residual double bonds % RDB	Sulfur curing	Peroxide curing
Fully saturated grades					
Therban® 3406	34	63	≤0.9	■	■
Therban® 3407	34	70	≤0.9	■	■
Therban® 3607	36	66	≤0.9	■	■
Therban® 3907	39	70	≤0.9	■	■
Therban® 4307	43	63	≤0.9	■	■
Therban® 4309	43	100	≤0.9	■	■
Partially saturated grades					
Therban® 3446	34	61	4	■	■
Therban® 3467	34	68	5.5	■	■
Therban® 3496	34	55	18	■	■
Therban® 3627	36	66	2	■	■
Therban® 3629	36	87	2	■	■
Therban® 3668 VP	36	80	6	■	■
Therban® 4367	43	61	5.5	■	■
Therban® 4369	43	97	5.5	■	■
Therban® 4498 VP	44	78	9	■	■
Low temperature grades					
Therban® LT 1707 VP	17	74	≤0.9	■	■
Therban® LT 1757 VP	17	70	5.5	■	■
Therban® LT 2157	21	70	5.5	■	■
Therban® LT 2057	21	67	5.5	■	■
Therban® LT 2007	21	74	≤0.9	■	■
Therban® LT 2568 VP	25	80	5	■	■
Low Mooney – Advanced technology grades					
Therban® AT LT 2004 VP	21	39	≤0.9	■	■
Therban® AT 3404	34	39	≤0.9	■	■
Therban® AT 3443 VP	34	39	4	■	■
Therban® AT 3904 VP	39	39	≤0.9	■	■
Therban® AT 4364 VP	43	39	5.5	■	■
Special grades					
Therban® XT VP	33	77	3.5	■	■
Therban® ART 3462 (Masterbatch)	34 ²	22 ¹	5.5 ²	■	■

VP = Versuchs-Produkt = trial product

Standard packaging: 25 kg bales / 500 kg skid

Film wrap: 0.08 mm thick, PE/EVA dispersible / strippable³ 85 – 110°C melt pt., blue

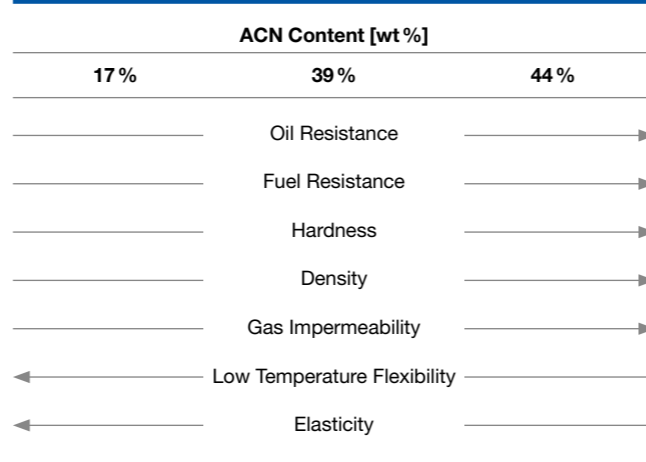
Therban® ART 3462: 20 kg / box – 800kg skid

¹ Compound Mooney

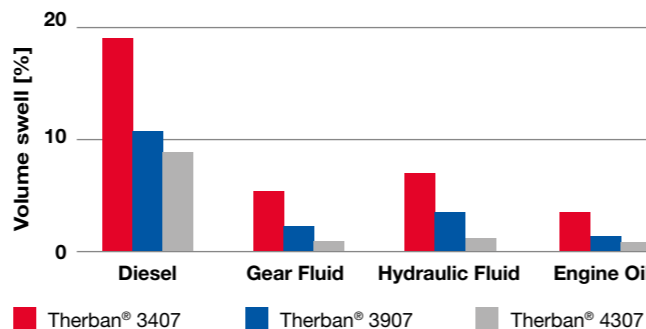
² of base polymer

³ not strippable for AT grades

Influence of the ACN content: general trends



Media resistance: general trends



Data for a simple peroxide cured carbon black filled compound without plasticizer.

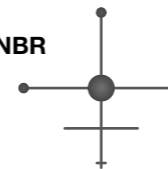
These items are provided as general information only. They are approximate values and not considered part of the product specification. As with any product, use of the products mentioned in this publication in a given application must be tested (including field testing etc.) by the user in advance to determine suitability.

Therban® AT grades: benefits

Compared to standard Therban® grades, the Mooney viscosity is significantly reduced. This results in improved flow characteristics.

- Increased throughput
- Less or no processing aids needed
 - Reduced risk of mold fouling
 - Reduced risk of blooming
 - Better adhesion to metals, fabrics etc.
- The Therban AT can be blended with standard Therban grades to tailor the flow characteristics of the compound

Standard HNBR



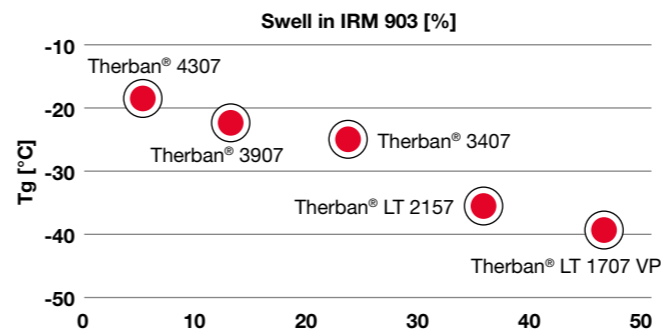
Therban® AT



The reduced crosslink density obtained with Therban® AT compared to standard grades can be compensated by adjusting the peroxide level. A typical value is + 1.5 phr peroxide (40%).

Therban® LT grades:

improved low temperature properties



Data for a simple peroxide cured carbon black filled compound without plasticizer.

Trial product:

(VP = Versuchsprodukt = trial product). The information contained herein is merely preliminary. Testing as to properties and applications is not final. Further information, including data which could change or add hazards with use, may be developed by the manufacturer, the user or a third-party institute. Such information may be needed to properly evaluate or use this product. Use is undertaken at the sole risk of the user.

Quality & Environmental Management:

Therban® is produced under strict control regarding safety, environmental protection and quality. The whole supply chain, from production to customer service, is covered by ISO 9001 and ISO 14001 certification.

Product Safety:

Relevant safety data and references as well as the necessary hazard warning labels can be found in the Material Safety Data Sheet.

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 and product labels. Consult us through your ARLANXEO representative or the Health, Safety, Environment and Quality Department (HSEQ) of ARLANXEO.

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.

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, which can be found at the ARLANXEO homepage. 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.

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