

# KRALEX® 1500

## Styrene-Butadiene Rubber - ESBR

### Technical Data Sheet

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Previous editions of this document have lost their validity.

### CHARACTERISTICS

KRALEX® 1500 is a standard grade of styrene-butadiene rubber. It is produced by a technology of cold emulsion copolymerization based on soaps of rosin and fatty acids and contains 23.5% of chemically bonded styrene. It is coagulated by a system of acid and synthetic coagulant, does not contain extender oil and is stabilized by staining antioxidant.

### GENERAL REQUIREMENTS

Bales of synthetic rubber KRALEX® 1500 should be close to dimensions 700x360x180 mm. Presence of any mechanical impurities is not permitted.

### TECHNICAL PARAMETERS

#### RUBBER TECHNICAL PARAMETERS

Parameters	Units	Values	Test methods
Mooney viscosity ML 1+4 (100°C) – massed	°ML	45 ÷ 55	ASTM D1646
Volatile matters	% wt.	max. 0,75	ASTM D5668
Total ash	% wt.	max. 0,4	ASTM D5667
Organic acids	% wt.	5,0 ÷ 7,5	ASTM D5774
Soaps	% wt.	max. 0,3	ASTM D5774
Bonded styrene	% wt.	22,5 ÷ 24,5	ASTM D5775

#### VULCAMETRIC PARAMETERS

Parameters	Units	Values	Test methods
ML	dNm	2,1 ÷ 2,8	ASTM D5289
MH	dNm	19,0 ÷ 22,0	ASTM D5289
Ts1	min.	2,2 ÷ 4,0	ASTM D5289
Tc90	min.	12,0 ÷ 17,0	ASTM D5289

#### STANDARD RUBBER COMPOUND COMPOSITION

Vulcammetric parameters in the table relate to the properties of the Standard Testing Compound of KRALEX SBR 1500.

All grades of SBR KRALEX® are tested using standard laboratory chemicals and procedures according to ASTM D3185 - 1A using a laboratory two roll-mill and carbon black - IRB 8.

The MDR 2000E Rotorless Cure Meter is used for the measuring of vulcanizing characteristics (1.7 Hz, ± 0.5° arc, 160 °C).

Guaranteed values of relevant technical parameters of the product are each time agreed upon in the sales contract.

To each shipping lot/delivery a quality certificate including data on properties of the product determined during release control is issued. Scope of the testing which is covered by the quality certificate is each time agreed upon in the sales contract.

### PACKAGING

KRALEX® 1500 is baled to form of rubber blocks weighing 33 kg (± 0,7 kg).

Each bale is wrapped in PE film, which is an integral part of the product and on which labelling of a specific colour relating to the respective rubber grade is present.

The blocks are laid into returnable metal boxes. Net weight of each complete box is about 1200 kg. Alternatively it is possible supply product in wooden boxes, net weight of each complete box is about 800 kg.

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Each packaging unit bears a self-adhesive label on which manufacturer's name, product name and grade, production lot number, net and gross weight, production date and labelling required by relevant regulations (if needed) are given.

#### TRANSPORTATION

KRALEX® is typically transported in covered road trucks, in covered railway carriages and in standard shipping containers.

KRALEX® 1500 is not a dangerous material to transport.

#### STORAGE

Product should be stored in sheltered conditions away from direct sunlight, at least 2 meters away from radiant heating elements and the temperature should not exceed 30°C. The guaranteed shelf life for KRALEX® under the above-mentioned conditions is twelve (12) months from the date of production.

#### APPLICATION

KRALEX® 1500 is appropriate for rubber compounds used in the production of car tyres, conveyor belts, footwear, cables, hosepipes and various technical rubber articles.

It is not approved for production of rubber articles coming into contact with foods or drinking water.

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*This document is of an informative character. The information given herein is based on the present state of our knowledge and experience. It makes neither product properties nor qualitative parameters guarantee and cannot be used as a basis of any claims. The information provided cannot be used for any mixtures with any other substances. Product should be transported, stored and used in accordance with valid regulations and good occupational hygiene practice.*

*Making use of the information as well as product application is beyond the producer control and determination of the safe conditions of use is the sole responsibility of a customer.*

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The logo for Synthos RUBBERS features the word "synthos" in a blue, lowercase, sans-serif font, with the letter "o" in green. Below it, the word "RUBBERS" is written in a blue, uppercase, sans-serif font with wide letter spacing.