

# KER<sup>®</sup> 1904

## High-Styrene Rubber - HSR

### Material Data Sheet

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Edition: 3

Approved by: Zdeněk Herber, Product manager

Previous editions of this document have lost their validity.

### CHARACTERISTICS

KER<sup>®</sup> 1904 is a grade of high-styrene rubber. It is produced by mixing of styrene-butadiene latex and high styrene resin in adequate proportion. It is coagulated by a system of acid and synthetic coagulant, is stabilized with a non-staining antioxidant and contains abt. 68% of bonded styrene.

### GENERAL REQUIREMENTS

KER<sup>®</sup> 1904 is packed into polyethylene bags 25.0 ± 0.5 kg. Presence of any mechanical impurities is not permitted.

### TECHNICAL PARAMETERS

#### RUBBER TECHNICAL PARAMETERS

Parameters	Units	Values	Test methods
Volatile matters	% wt.	max. 1,0	ASTM D5668
Total ash	% wt.	max. 0,4	ASTM D5667
Organic acids	% wt.	5,0 ÷ 7,0	ASTM D5774
Soaps	% wt.	max. 0,4	ASTM D5774

#### VULCANIZATE TECHNICAL PARAMETERS

Parameters	Units	Values	Test methods
Tensile strenght	MPa	min. 16,7	ASTM D412
Hardness	°Sh D	56,0 ÷ 64,0	DIN 53505

#### STANDARD RUBBER COMPOUND COMPOSITION

Components	Quantities
Rubber	100,00 parts by weight
Zinc white	5,00 parts by weight
Stearine	1,00 parts by weight
Sulphur	2,00 parts by weight
DM accelerator	1,60 parts by weight
D accelerator	0,40 parts by weight

Vulcanization conditions: temperature 145°C, time 50 minutes.

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

KER<sup>®</sup> 1904 has a form of granules and is packed into polyethylene bags 25.0 ± 0.5 kg each, then laid onto 1.2 t wooden pallets or transported in road tankers.

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## TRANSPORTATION

KER® is typically transported in covered road trucks, in covered railway carriages and in standard shipping containers, in rail tank cars or road tankers.

KER® 1904 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 KER® under the above-mentioned conditions is twelve (12) months from the date of production.

## APPLICATION

KER® 1904 is used for production of floor finishes, cables, toys and micro porous rubber for footwear industry.

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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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