

**CHLOROBUTYL RUBBER  
GRADE CIIR-139**

Chlorobutyl rubber grade CIIR-139 is a product obtained by chlorination of butyl rubber with unsaturation 1.8 mol% minimum.

Application: tire and mechanical rubber industries, medical products manufacture.

**Chemical name:** Chlorinated copolymer of isobutylene and isoprene

**Empirical formula:**  $((C_4H_8)_m(C_5H_8Cl)_n)_x$

**Standard specification:** TU 20.17.10-096-05766801-2017

**Product characteristics**

Property	Value	Test method
1. Mooney Viscosity ML 1+8 (125°C), MU, within	33-44	para.4.2 of TU or ASTM D 1646
2. Viscosity spread in a lot Mooney, MU, max	4	para.4.2 of TU
3. Chlorine, wt %, within	1.10-1.40	para. 4.3 of TU or ASTD D 3566
4. Ash, wt %, max	0.50	para.4.4 of TU or ISO 247 or ASTM D 5667
5. Non-staining antioxidant, wt %, min	0.05	para.4.5 of TU
6. Loss on drying, wt %, max	0.70	para. 4.7 of TU or ISO 248 or ASTM D 5668
7. Curing characteristics, within: -minimum torque $M_L$ , dNm -maximum torque $M_H$ , dNm - time to cure start, $t_{SI}$ , minutes - time to 50% cure, $t'(50)$ minutes - time to 90% cure, $t'(90)$ minutes	2.0-3.5 6.5-10.0 0.8-2.2 2.5-5.0 6.5-11.0	para. 4.9 of TU

**Product form:**  $30 \pm 1$  kg bales

**Packaging:** Bales are wrapped in unmarked EVA film.

Storing and transportation in polymer containers or metal containers of MB-5 type (or similar). Pallet box or container internal surface is covered with PE bag (liner) before bales loading; after loading the box/container is closed and wrapped with belt. Two shipping labels are applied to each pallet box.

**Transport:** All types of transport in accordance with the applicable shipping rules.

**Storage:** Rubber packed in:

- polymer containers are stored in stacks of no more than 3 deck in height;
- metal containers are stored in stacks up to 5 deck in height;

Packaged rubber is stored in the warehouse of the manufacturer or consumer in places protected from direct sunlight, atmospheric precipitation and pollution.

Guarantee shelf life - 2 year from the date of production.

The information herein is based on our data compiled and believed to be reliable on the revision date. This specification does not release the customer from the responsibility to check the product for fitness for the intended use. Producer disclaims liability for any loss or damage arising from usage of this information.