

PBNK-40 (NBR powder) Group 1 (talc)

MATERIAL DATA SHEET

► **Manufacturer** “Krasnoyarsk synthetic rubber plant” JSC

► **Powdered nitrile-butadiene rubber (PBNK-40)** obtained by way of comminution of nitrile-butadiene rubber containing bound acrylonitrile (36 – 40) % with the use of special equipment so that particles having a minimum size of 1 mm are resulted at the output. Talc is used as an agent preventing the particles from aggregation (adhesion reducing powder).

► **Application**

This product is used for manufacturing the molded and unmolded general mechanical rubber goods; it may be also used in the production of soft cable compounds and rubber compounds, in the production of artificial leather and shoes, film filler materials as well as in the production of cements, joint sealants, sealing compounds and so on. The product may be also used for manufacturing the articles with increased oil-and-gas resistance. The rubber powder form makes it possible to reduce labor costs and electric energy consumption during rubber processing and when producing the articles from it as well as it makes the process of rubber dosage batching more easy.

► **Product characteristics**

Appearance – fine powder

Packing – polyethylene bag placed into a cardboard box

Weight of a box – (25±0.5) kg

Shelf life –6 (six) months since the date of manufacture.

► **Basic properties**

| Parameter | Value PBNK-40 (talc) Group 1 | Test method | |
|--|------------------------------------|--------------------------------------|---|
| Appearance | Fine powder | ТУ 38.30330-2009 | C |
| Вязкость по Муни МБ (1+4) 100°C (исходный полимер) Mooney viscosity MB (1+4) 100 °C (primary polymer) | 50-60 | ТУ 38.30313-2006 ТУ 38.30314-2006 | C |
| Bound acrylonitrile content, % (primary polymer) | 37-40 | ТУ 38.30313-2006 ТУ 38.30314-2006 | C |
| Потери массы при сушке, % Volatile matter content, % | ≤ 0,8 | ТУ 38.30330-2009 | C |



| | | | |
|---|--|------------------|---|
| Массовая доля золы, % Ash content, % | ≤ 11 | ТУ 38.30330-2009 | C |
| Тип антиоксиданта Antioxidant type | не окрашивающий non-staining | | C |
| Индекс агломерации, ед. Agglomeration index, units | 6-10 | ТУ 38.30330-2009 | C |
| Массовая доля остатка после просева на сите с сеткой номер 1.0, % Residual matter content after sieving on sizing screen with strainer No. 1.0, % | ≤ 15 | ТУ 38.30330-2009 | C |

► **Properties of vulcanizates**

Рецепт/Recipe

| Parameter | Mass fraction |
|---|---------------|
| Каучук / Rubber | 100,0 |
| Кислота стеариновая техническая по ГОСТ 6484 марки Т-18 или Т-32 / Technical stearic acid acc. GOST 6484, grades T-18 or T-32 | 1,0 |
| Белила цинковые сухие по ГОСТ 202, марки БЦОМ / Dry zink oxide acc. GOST 202, grade BCOM | 3,0 |
| Сульфенамид Ц по ТУ 2491-055-05761637 / Vulcanizing accelerator TBBS acc. Specifications TU 2491-055-05761637 | 0,7 |
| Углерод технический по ГОСТ 7885, марки П-324 / Carbon black acc. GOST 7885, grade P-324 | 40,0 |
| Сера техническая по ГОСТ 127.4 сорт 9995 или 9990, 1 или 2 класс / Technical sulfur acc. GOST 127.4, grade 9995 or 9990, class 1 or 2 | 1,5 |
| В с е г о: /Total: | 146,2 |

| 142°C×50 min. | | | |
|---|--------|------------------|---|
| Условная прочность при растяжении. МПа Tensile strength, MPa | ≥ 19,6 | ТУ 38.30330-2009 | C |
| Относительное удлинение при разрыве, % Elongation at break, % | ≥ 350 | ТУ 38.30330-2009 | C |

В сертификате качества каждой партии обязательно указывать значения всех показателей, помеченных индексом «С».

The Quality Certificate for each lot shall include the values of all parameters marked with index „C“.

Rubber PBNK-40 (talc), group I, meets the requirements of Specifications ТУ 38.30330-2009.



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