

Lithium Polybutadiene Rubber

Technical specification

Manufacture Synthetic rubber, cis-butadiene PBR, lithium, with average content of 1.4-cis-links is the product of butadiene polymerization with the use of lithium compounds as the catalyst.

Product characteristics:

Characteristics of material	Rated value	Test method
1		6
1. Content		
- 1.4-cis-links, %, not less than	38	GOST 19920.2
- 1.4-trans-links, %, not less than	50	
- 1.2-vinyl-links, %, not more than	15	
2. Mooney viscosity, MB 1 + 4 (100°C), within the limited range	50 – 56	ASTM D 1646
3. Kinematic viscosity (5%-solution in styrene), mm ² /sec	170 – 196	ASTM D 2057
4. Color (5%-solution in styrene), APHA not more than	20	ASTM D 1209
5. Average mass yellow index, not more than	4.5	ASTM D 1209
6. Ash mass content, %, not more than	0.1	ASTM D 1416
7. Mass content of volatile compounds, %, not more than	0.75	ASTM D 1416
8. Mass content of water, %, not more than	0.2	ASTM D 2849
9. Mass gel content, %, not more than	0.2	ASTM D 3616/ FINA PS-61
10.Total volume of stabilizer, not less than	0.07	As per TU 2294- 100-05766801-2003

Period of storage in the warehouse

The rubber is stored in the warehouses of producer or consumer at the temperature not higher than 30°C in places protected from contamination or exposure to direct sunlight or atmospheric precipitation.

Packing

Storage period – 1 year from the date of production.

Bales weighing 30 kg, packed in EVA-film as per STP 4.21-03. Rubber bales wrapped in film are placed in the special-purpose metal or wooden box-type pallets.

Marking

Transportation marking is applied on each cargo item and should contain information as follows:

- name of manufacturer and its trademark
- name of consignee
- job number
- cargo item number and quantity of items
- net weight and gross weight
- date of manufacture (month and year)

Product safety

Lithium PBR rubber is not toxic and belongs to low-hazard substances of hazard class number 4. It is neither explosive nor self-ignited. During transportation, storage and use no special precautions or safety rules shall be required.