

BROMINATED BUTYL RUBBER

Brominated Butyl Rubber is obtained by bromination of butyl rubber with unsaturation of minimum 1.5 mol%.

Application: in tyre and mechanical rubber industries, to manufacture medical items.

Chemical name: Brominated copolymer of isobutylene and isoprene

Technical specification: TU 20.17.10-096-05766801-2017

| Name of parameter | Specifications for | | | Test method |
|--|--------------------|-----------|-----------|---|
| | BBK-232 | BBK-239 | BBK-246 | |
| 1. Mooney Viscosity ML 1+8 (125°C), within the range | 28÷35 | 36÷42 | 43÷50 | Acc. to TU para.4.2 or ASTM D 1646 |
| 2. Viscosity spread in a lot, max | 4 | 4 | 4 | Acc. to TU para.4.2 |
| 3. Bromine mass content, %, within the range | 1,50÷2,20 | 1,50÷2,20 | 1,50÷2,20 | Acc. to TU para.4.3 or ASTM E 442 |
| 4. Ash mass content, %, max | 0.7 | 0.7 | 0.7 | Acc. to TU para.4.4 or ISO 247 or ASTM D 5667 |
| 5. Antioxidant Irganox 1076 (or similar), wt%, min | 0.05 | 0.05 | 0.05 | Acc. to TU para.4.6 |
| 6. Volatiles, wt%, max | 0.7 | 0.7 | 0.7 | Acc. to TU para.4.7 or ISO 248 or ASTM D 5668 |
| 7. Curing characteristics | | | | |
| - minimum torque M_L , dNm | 1,2÷3,3 | 1,2÷3,3 | 1,2÷3,3 | Acc. to TU para.4.9 or ASTM D 5289 |
| - maximum torque M_H , dNm | 5,5÷10,5 | 5,5÷10,5 | 5,5÷10,5 | |
| - time to cure start, tS1, minutes | 1,2÷3,8 | 1,2÷3,8 | 1,2÷3,8 | |
| -time before totalling of 50 % curing , t'(50) min | 3,5÷7,1 | 3,5÷7,1 | 3,5÷7,1 | |
| - time to 90% cure, t'(90) minutes | 5,5÷11,0 | 5,5÷11,0 | 5,5÷11,0 | |

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| Supply form: | 30 ± 1 kg bales |
| Bales packaging: | Bales are wrapped in center-fold, tubular, band marked and unmarked EVA film, (0.050×750) mm, Vicat softening temperature 85°C max (or similar quality film). |
| Shipping packaging: | Product is stored and shipped in polymer pallet boxes. Pallet box internal surface is covered with PE bag (liner) before loading; after loading the box is closed and wrapped with belt. Two shipping labels are applied to each box. |
| Transportation: | All types of transport in accordance with goods transportation rules, valid for this mode of transport. |
| Storage: | Pallet boxes with rubber are kept in stacks in producer's or user's warehouse. Product should be protected from contamination and stored away from direct sunlight and rainfall. Stacks should not be higher than three pallet levels each. Guarantee shelf life - 1 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 relieve the Customer from liability for checking the product for compliance with the proposed application. The manufacturer is not responsible for any losses or damages that may arise due to application of this information.