

Exxon™ Bromobutyl 2235 Rubber

Product Description

Exxon™ Bromobutyl 2235 is a brominated copolymer of isobutylene and isoprene. Exxon™ Bromobutyl is a trademark designating a series of polymers made by brominating isobutylene/isoprene copolymers (butyl).

Key Features

This grade of bromobutyl is faster curing than standard butyl, is more heat stable and is more compatible with highly unsaturated rubbers. The medium Mooney viscosity and medium molecular weight of this grade provide excellent fatigue and durability characteristics making it especially suitable for passenger car, truck and bus radial tire innerliner applications. Other end uses are tire sidewalls, pharmaceutical stoppers and mechanical goods.

| General | | | | | | |
|---------------------------|---|--|-----------------------------------|--|--|--|
| Availability ¹ | Africa & Middle EastAsia Pacific | EuropeLatin America | North America | | | |
| Appearance | Uniform, white to light am | Uniform, white to light amber | | | | |
| Form(s) | Bale | | | | | |
| Revision Date | • 02/06/2023 | | | | | |

| Resin Properties | Typical Value | (English) | Typical Value | (SI) | Test Based On |
|---|---------------|-----------|---------------|---------|----------------------|
| Density | 0.93 | g/cm³ | 0.93 | g/cm³ | ASTM D297 |
| Mooney Viscosity ² (ML 1+8, 257°F (125°C)) | 39 | MU | 39 | MU | ASTM D1646 (mod) |
| Antioxidant (non-staining) | 0.02 | wt% min | 0.02 | wt% min | ExxonMobil Method |
| Functional Bromine | 1.03 | mol% | 1.03 | mol% | ExxonMobil Method |
| Bromine | 2.1 | wt% | 2.1 | wt% | ExxonMobil Method |
| Calcium | 0.14 | wt% | 0.14 | wt% | ExxonMobil Method |
| Stabilizer | 1.3 | wt% | 1.3 | wt% | ExxonMobil Method |
| Water | 0.3 | wt% max | 0.3 | wt% max | ExxonMobil Method |
| Volatiles | < 0.6 | wt% | < 0.6 | wt% | ASTM D5668 (mod) |
| Ash | < 0.4 | wt% | < 0.4 | wt% | ASTM D5667 (mod) |
| | | | | | |

| Cure Characteristics (Rheometer) | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------------|-------------------------|--------------------|---------------|
| ts2 ³ | 3.7 min | 3.7 min | ASTM D5289 |
| t'50 ³ | 4.4 min | 4.4 min | ASTM D5289 |
| t'90 ³ | 7.0 min | 7.0 min | ASTM D5289 |
| Minimum Torque ³ | 2.9 dN·m | 2.9 dN·m | ASTM D5289 |
| Maximum Torque ³ | 8.0 dN·m | 8.0 dN·m | ASTM D5289 |

Additional Information

Storage: All inventory must be stored in dry conditions in an enclosed warehouse, protected from contaminants, and outdoor light exposure (including during shipment and transfers). Shipping Policy: ExxonMobil's policy is to not ship products over 2 years old from the date of production. Packaging: 34+/-0.68kg bales in dispersible EVA film or release film. For material with dispersible film wrap, Vicat softening point less than or equal to 85°C (ASTM 1525-87). Pallets of 36 bales (1224kgs).

Legal Statement

For detailed product compliance information, please contact customer Service.

This product is not intended for use in food contact applications.

This product, including the product name, shall not be used or tested in any medical application without prior written acknowledgement of ExxonMobil Chemical as to the intended use.

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Notes

Typical properties: these are not to be construed as specifications.

- ¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.
- ² MV 2000 or equivalent
- ³ Rotor less curemeter (cure conditions -160°C, 30 min; preheat -none; oscillation-1.7 Hz, Arc ±0.5°), Standard compound: ASTM D3958 (Test Formulation Exxon™ Bromobutyl 2235 (100 phr), Carbon black IRB 8 (40 phr), Zinc Oxide IRM 91 (5 phr), Stearic Acid IRM 021 (1 phr), mill mixed compound)

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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