

Exxon™ Bromobutyl 7211

Rubber

Product Description

Exxon™ bromobutyl rubber is a brominated copolymer of isobutylene and isoprene. The product has a characteristic specific gravity of 0.93. The product form is offwhite to amber bales. Fast Cure Rate Grade

| Properties | Target | Minimum | Maximum | Unit | Test Method |
|---|--------|---------|---------|------|-------------------|
| Mooney Viscosity ¹ (ML 1+8, 125°C) | 32 | 28 | 36 | MU | ASTM D1646 (mod) |
| Antioxidant (non-staining), Irganox 1010 | -- | 0.010 | 0.075 | wt% | ExxonMobil Method |
| Functional Bromine | 1.08 | 0.93 | 1.23 | mol% | ExxonMobil Method |
| Calcium | 0.13 | 0.10 | 0.16 | wt% | ExxonMobil Method |
| Stabilizer | | | | | ExxonMobil Method |
| Epoxidized soybean oil | 1.3 | 1.0 | 1.6 | wt% | ExxonMobil Method |
| Water | -- | -- | 0.3 | wt% | ExxonMobil Method |

| Cure Characteristics (Rheometer) | Target | Minimum | Maximum | Unit | Test Method |
|----------------------------------|--------|---------|---------|------|------------------|
| MH ² | 40.0 | 33.0 | 47.0 | dN·m | ASTM D2084 (mod) |
| ML ² | 15.0 | 10.5 | 19.5 | dN·m | ASTM D2084 (mod) |
| t ⁹⁰ ² | 9.0 | 5.0 | 13.0 | min | ASTM D2084 (mod) |

Legal Statement

All ASTM methods shown may be modified by the ExxonMobil laboratory.

Exxon™ bromobutyl rubber is registered in the Toxic Substance Control Act Inventory under CAS number 68441-14-5.

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Notes

¹ MV 2000 or equivalent

² Rheometer ODR 2000 Standard compound: ASTM D3958 (mod)

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