



## Technical Data Sheet

**MATERIAL:** Poly(isobutylene-co-isoprene), brominated

**CATALOG NUMBER:** 650

**CAS NUMBER:** 68441-14-5

**DESCRIPTION:** Brominated butyl rubber

**FORMULA:**  $(C_5H_8 \cdot C_4H_8)_x$

**TYPICAL PROPERTIES:**

Appearance:	Slab
Isoprene content:	1.5%
Bromine content:	2.1%
Approx Mw:	410,000
Mw/Mn:	3.5
Mooney viscosity:	30
Density:	0.93
Stabilizer:	1.2 wt%
Solubility:	Partially in THF

**GENERAL INFORMATION:** Prepared by the bromination of butyl rubber which contains approximately 98% polyisobutylene with 2% isoprene distributed randomly in the polymer chain. Brominated butyl rubber can be vulcanized more quickly than butyl rubber. Zinc oxide is commonly used to crosslink bromobutyl rubber. Stabilizers such as calcium stearate and epoxidized soybean oil can be used to prevent dehydrohalogenation during processing. Halogenated butyl rubbers find application as inner tubes and sidewalls in tire products as well as valve seals, tank liners, and mounts.

**STRUCTURE:**