

## Butyl Rubber (IIR, CIIR, BIIR)

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

Butyl rubber is a copolymer of isoprene (minor) and isobutylene. Chlorobutyl (CIIR) and Bromobutyl (BIIR) contains 1.2% of the halogen. The halogen addition changes the cure characteristics and can improve adhesion. IIR rubber resists degradation by fats/oils/greases and ozone and other strong oxidizing chemicals. IIR rubber is attacked by petrochemical solvents including aromatics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Butyl-Rubber-IIR-CIIR-BIIR.php](http://www.lookpolymers.com/polymer_Butyl-Rubber-IIR-CIIR-BIIR.php)

Physical Properties	Metric	English	Comments
Density	1.15 - 1.35 g/cc	0.0415 - 0.0488 lb/in <sup>3</sup>	Compounded

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	35 - 95	35 - 95	Depends on compounding
Tensile Strength, Ultimate	17.0 MPa	2470 psi	Compounded Tire
Elongation at Break	400 - 800 %	400 - 800 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 °C	248 °F	
Minimum Service Temperature, Air	-25.0 °C	-13.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	24.0 kV/mm	610 kV/in	

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