



Lion Elastomers Orange, LLC

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## Diene™ 55AC15

## Product Data

Diene™ 55AC15 is a solution polymerized plastics grade medium cis polybutadiene, featuring excellent color and low gel. It is intermediate in solution viscosity and contains a non-volatile and TNPP-free antioxidant system. Diene™ 55AC15 is widely used as an impact modifier for thermoplastic resins such as HIPS and ABS.

### Typical Properties

| <u>Property</u>                                  | <u>Test Method*</u> | <u>Typical Range</u> |
|--|---------------------|----------------------|
| Volatile Matter, Wt. % .....                     | ASTM D5668          | 0.0 – 0.60           |
| Mooney Viscosity, ML/4/100°C .....               | ASTM D1646          | 48.0 – 56.0          |
| Solution Viscosity (5.43% in Toluene), cPs ..... | ASTM D445           | 147.0 – 177.0        |
| Ash, Wt. % .....                                 | ASTM D5667          | 0.20 Max.            |
| Glass Transition Temperature, Tg, °C .....       | ASTM E1356          | - 96.0               |
| APHA Color .....                                 | ASTM D1209          | 0.0 – 10.0           |
| Toluene Insolubles, Wt. % .....                  | —                   | 0.01 Max.            |
| Dissolving Time, Hrs. @ 25°C .....               | —                   | 4.0 Max.             |
| Antioxidant Stabilizer .....                     | —                   | Non-staining         |
| Organic Acid .....                               | —                   | None                 |
| Soap .....                                       | —                   | None                 |
| Specific Gravity, g/cc .....                     | —                   | 0.90                 |

\* This product is available in 75.0-pound rectangular bales individually wrapped with 3.0 mil polystyrene film. This material can be shipped in either returnable or disposable containers.

\* Antioxidant is added to this polymer to provide protection during manufacture and storage. The end user's process may require additional antioxidant protection.

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