



Lion Elastomers Orange, LLC

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Diene™ 45NF15

Product Data

Diene™ 45NF15 is a solution polymerized rubber grade medium cis polybutadiene that contains a non-volatile and TNPP-free antioxidant stabilizer system. This polymer is similar to Diene 55NF but at lower viscosity for easier processing. It is used in mechanical goods where flow and mixing are important. Diene™ 45NF15 offers excellent abrasion resistance, high rebound, low temperature flexibility, and good resistance to fatigue cracking and crack growth.

Typical Properties

<u>Property</u>	<u>Test Method*</u>	<u>Typical Range</u>
Volatile Matter, Wt. %	ASTM D5668	0.0 – 0.75
Mooney Viscosity, ML/4/100°C	ASTM D1646	40.0 – 50.0
Cis Content, Wt.%	ASTM D2702	40.0
Glass Transition Temperature, Tg, °C	ASTM E1356	- 96.0
Toluene Insolubles, Wt. %	—	0.01 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 2.0 mil polyethylene or 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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