



Lion Elastomers Orange, LLC

5713 Farm to Market Rd 1006 • Orange, TX 77630
800 / 535-9960 • www.lionelastomers.com

Diene™ 45NF10

Product Data

Diene™ 45NF10 is a solution polymerized rubber grade medium cis polybutadiene that contains a non-volatile 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™ 45NF10 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.

Notice: All information supplied by or on behalf of Lion Elastomers Orange, LLC in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and believed reliable, but Lion Elastomers Orange, LLC assumes no liability whatsoever in respect of application, processing or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, processing or use made of the aforementioned information or product, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall attach to Lion Elastomers Orange, LLC for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or use of the aforementioned information or products by the buyer.