

# Diene™

## 40NF

Diene 40NF is a solution polymerized rubber grade medium cis polybutadiene having 40% cis content and a slightly staining antioxidant stabilizer system. This easy processing rubber is used in mechanical goods where flow and mixing are important. Diene 40NF offers excellent resistance to abrasion, high resilience or rebound, low temperature flexibility, and good resistance to fatigue cracking and crack growth.

### SPECIFICATIONS

#### RAW POLYMER:

<u>Properties</u>	<u>Target</u>	<u>Minimum</u>	<u>Maximum</u>
Volatile Matter, %	--	--	0.75
Viscosity, ML/4/212°F	40.0	35.0	45.0

#### COMPOUND:

##### Test Recipe (ASTM D3189-D)

##### Rheometer (ASTM D2084) 1° Arc, 320°F

Diene 40NF	100.00	tc10 (min)	5.0 ± 2.0
IRB 7	60.00	tc50 (min)	8.0 ± 2.0
Type 103 Oil	15.00	tc90 (min)	12.5 ± 2.5
Zinc Oxide	3.00	ML (lbs-in)	9.0 ± 2.0
Stearic Acid	2.00	MH (lbs-in)	35.0 ± 4.0
Sulfur	1.50		
TBBS	<u>0.90</u>	ML/4/212°F	72.0 ± 10.0
	182.40		