

Diene™

55NF

Diene 55NF is a solution polymerized rubber grade medium cis polybutadiene having 40% cis content and a non-staining antioxidant stabilizer system. Diene 55NF 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
Ash, %	—	—	0.20
Viscosity, ML/4/212°F	52.0	47.0	57.0

COMPOUND:

<u>Test Recipe (ASTM D3189-D)</u>		<u>Rheometer (ASTM D2084)</u> <u>1° Arc, 320°F</u>	
Diene 55NF	100.00	tc10 (min)	4.5 ± 2.0
IRB 8	60.00	tc50 (min)	8.5 ± 2.0
Type 103 Oil	15.00	tc90 (min)	12.5 ± 2.5
Zinc Oxide	3.00	ML (lbs-in)	11.5 ± 2.0
Stearic Acid	2.00	MH (lbs-in)	41.5 ± 4.0
Sulfur	1.50		
TBBS	<u>0.90</u>	ML/4/212° F	102.0 ± 10.0
	182.40		

Firestone
Polymers

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