

Diene™

645

Diene 645 is a solution polymerized rubber grade high cis polybutadiene having 96% cis content and a non-staining antioxidant stabilizer system. Diene 645 is designed for use in a number of applications including tire treads, sidewalls, golf balls, and many mechanical rubber goods.

SPECIFICATIONS

RAW POLYMER:

<u>Properties</u>	<u>Target</u>	<u>Minimum</u>	<u>Maximum</u>
Volatile Matter, %	-	-	0.5
Ash, %	-	-	0.3
Viscosity, ML/4/212°F	45.0	40.0	50.0

COMPOUND:

Test Recipe (ASTM D3189-D)

Rheometer (ASTM D2084) 1° Arc, 320°F

Diene 645	100.00	tc10 (min)	5.3 ± 2.0
IRB 7	60.00	tc50 (min)	8.0 ± 2.0
Type 103 Oil	15.00	tc90 (min)	11.3 ± 2.5
Zinc Oxide	3.00	ML (lbs-in)	13.5 ± 2.0
Stearic Acid	2.00	MH (lbs-in)	38.0 ± 4.0
Sulfur	1.50		
TBBS	<u>0.90</u>	ML/4/212°F	100.0 ± 10.0
	182.40		