

Duradene®

751

Duradene 751 is a solution polymerized, styrene-butadiene copolymer having 25% bound styrene, 37.5 phr aromatic oil, and an unusually efficient antioxidant stabilizer system. Duradene 751 provides a good combination of properties necessary for tire treads and many mechanical rubber goods, such as low rolling loss and excellent abrasion and cut growth resistance.

SPECIFICATIONS

RAW POLYMER:

<u>Properties</u>	<u>Target</u>	<u>Minimum</u>	<u>Maximum</u>
Volatile Matter, %	-	-	0.5
Bound Styrene, %	25.0	24.0	26.0
Viscosity, ML/4/212° F	45.0	40.0	50.0
Oil, %	27.3	25.8	28.8

COMPOUND:

<u>Test Recipe (ASTM D3185-2B MIM)</u>		<u>Rheometer (ASTM D2084)</u> <u>1° Arc, 320°F</u>	
Duradene 751	137.50	tc10 (min)	5.5 ± 2.0
IRB 7	68.75	tc50 (min)	7.0 ± 2.0
Zinc Oxide	3.00	tc90 (min)	9.0 ± 2.5
Stearic Acid	1.00	ML (lbs-in)	9.0 ± 2.0
Sulfur	1.75	MH (lbs-in)	33.0 ± 4.0
TBBS	<u>1.38</u> 213.38	ML/4/212°F	80.0 ± 10.0

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