

# Duradene<sup>®</sup>

## 750B

Duradene 750B is a solution polymerized, styrene-butadiene copolymer having 18% bound styrene and an efficient antioxidant stabilizer system. It also features a naphthenic based black oil in place of aromatic oil to meet the requirements of IP346. Duradene 750B provides excellent abrasion resistance and low hysteresis in tire treads and has a typical Tg of -70°C which gives good low temperature properties.

### SPECIFICATIONS

#### RAW POLYMER:

<u>Properties</u>	<u>Target</u>	<u>Minimum</u>	<u>Maximum</u>
Volatile Matter, %	-	-	.75
Bound Styrene, %	18.0	17.0	19.0
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 750B	137.50	tc10 (min)	5.5 ± 2.0
IRB 8	68.75	tc50 (min)	7.5 ± 2.0
Zinc Oxide	3.00	tc90 (min)	9.5 ± 2.5
Stearic Acid	1.00	ML (lbs-in)	11.5 ± 2.0
Sulfur	1.75	MH (lbs-in)	36.0 ± 4.0
TBBS	<u>1.38</u>		
	213.38	ML/4/212°F	90.0 ± 10.0

Jan - 2016

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