

Duradene[®]

753B

Duradene 753B is a solution polymerized, styrene-butadiene copolymer having 33% bound styrene, 20 phr of a special high viscosity naphthenic oil and an efficient antioxidant stabilizer system. Duradene 753B provides an optimum combination of properties necessary for tire treads, such as low rolling loss, excellent abrasion resistance and excellent wet traction. It has a typical glass transition temperature of -47° C.

SPECIFICATIONS

RAW POLYMER:

<u>Properties</u>	<u>Target</u>	<u>Minimum</u>	<u>Maximum</u>
Volatile Matter, %	-	-	0.5
Bound Styrene, %	33.0	32.0	34.0
Viscosity, ML/4/212° F	75.0	67.0	82.0
Oil, %	16.5	15.0	18.0

COMPOUND:

<u>Test Recipe (ASTM D3185-6B MIM)</u>		<u>Rheometer (ASTM D2084)</u> <u>1° Arc, 320°F</u>	
Duradene 753B	120.00	tc10 (min)	5.3 ± 2.0
IRB7	60.00	tc50 (min)	8.8 ± 2.0
Zinc Oxide	3.00	tc90 (min)	11.5 ± 2.5
Stearic Acid	1.00	ML (lbs-in)	13.3 ± 2.0
Sulfur	1.75	MH (lbs-in)	41.5 ± 4.0
TBBS	<u>1.20</u>		
	186.95	MS/4/212°F	70.0 ± 10.0

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