

Duradene[®]

753B

Duradene 753B is a solution polymerized, styrene-butadiene copolymer having 33% 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 753B provides good wet traction in high performance tires, while maintaining good abrasion resistance and low hysteresis. 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, %	-	-	.75
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)	5.5 ± 2.0
IRB8	60.00	tc50 (min)	9.0 ± 2.0
Zinc Oxide	3.00	tc90 (min)	11.0 ± 2.5
Stearic Acid	1.00	ML (lbs-in)	14.0 ± 2.0
Sulfur	1.75	MH (lbs-in)	44.0 ± 4.0
TBBS	<u>1.20</u>		
	186.95	MS/4/212°F	70.0 ± 10.0

Firestone
Polymers

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