

Duradene[®]

756B

Duradene 756B is a solution-polymerized, styrene-butadiene copolymer having 33.5% bound styrene, 30.0% vinyl, and an efficient antioxidant stabilizer system. It also features high viscosity naphthenic oil in place of aromatic oil to meet the requirements of IP346. Duradene 756B provides excellent wet traction in high performance tires, while still maintaining good abrasion resistance and rolling loss. It has a typical glass transition temperature of -42° C.

SPECIFICATIONS

RAW POLYMER:

<u>Properties</u>	<u>Target</u>	<u>Minimum</u>	<u>Maximum</u>
Volatile Matter, %	-	-	0.5
Bound Styrene, %	33.5	32.0	35.0
Vinyl, %	30.0	27.0	33.0
Viscosity, ML/4/212° F	57.0	52.0	62.0
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 756B	137.50	tc10 (min)	6.5 ± 2.0
IRB 7	68.75	tc50 (min)	9.5 ± 2.0
Zinc Oxide	3.00	tc90 (min)	12.5 ± 2.5
Stearic Acid	1.00	ML (lbs-in)	10.5 ± 2.0
Sulfur	1.75	MH (lbs-in)	32.5 ± 4.0
TBBS	<u>1.38</u>		
	213.38	ML/4/212°F	85.0 ± 10.0

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