

Duradene®

763B

Duradene 763B is an oil extended styrene-butadiene copolymer having 40.5% bound styrene, 38.5% vinyl, and high molecular weight. It also features a naphthenic based black oil in place of aromatic oil to meet the requirements of IP346. Duradene 763B provides excellent traction and abrasion resistance, and has a typical Tg of -30°C.

SPECIFICATIONS

RAW POLYMER:

<u>Properties</u>	<u>Target</u>	<u>Minimum</u>	<u>Maximum</u>
Volatile Matter, %	-	-	0.75
Bound Styrene, %	40.5	39.0	42.0
Vinyl, %	38.5	35.5	41.5
Viscosity, ML/4/212°F (Unmassed)	59.0	54.0	64.0
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 763B	137.50	tc10 (min)	6.5
IRB 8	68.75	tc50 (min)	9.5
Zinc Oxide	3.00	tc90 (min)	13.0
Stearic Acid	1.00	ML (lbs-in)	9.0
Sulfur	1.75	MH (lbs-in)	31.0
TBBS	<u>1.38</u>		
	213.38	ML/4/212°F	77.0

The logo for Firestone Polymers, featuring the word "Firestone" in red above the word "Polymers" in black, with a stylized red and black graphic element.

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FIRESTONE POLYMERS