

# Duradene®

## 738

Duradene 738 is a solution polymerized, tin coupled, styrene-butadiene copolymer having 20% bound styrene, 58% vinyl, and a non-staining antioxidant stabilizer system. The unique combination of tin coupling and high Tg provides an excellent blend of low hysteresis, good tread wear, and superior wet traction in black and/or silica filled compounds

### SPECIFICATIONS

#### RAW POLYMER:

<u>Properties</u>	<u>Target</u>	<u>Minimum</u>	<u>Maximum</u>
Volatile Matter, %	-	-	0.50
Bound Styrene, %	20.0	18.5	21.5
Vinyl, %	58.0	54.0	62.0
Viscosity, ML/4/212° F	74.0	68.0	80.0

#### COMPOUND

<u>Test Recipe (ASTM D3185-1A Modified)</u>		<u>Rheometer - ASTM D2084</u> <u>1° Arc, 320° F</u>	
Duradene 738	100.00	tc10 (min)	9.5
IRB 7	50.00	tc50 (min)	12.5
Zinc Oxide	3.00	tc90 (min)	18.5
Stearic Acid	1.00	ML (lbs-in)	4.0
Naphthenic Oil	15.00	MH (lbs-in)	29.0
Sulfur	1.75		
TBBS	<u>1.00</u>		
	171.75	Compound ML/4/212° F	64.0

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