

# Duradene®

## 739

Duradene 739 is a solution polymerized, tin coupled, styrene-butadiene copolymer having 20% bound styrene, 60% vinyl, and a non-staining antioxidant stabilizer system. The unique combination of tin coupling, high molecular weight, and high Tg provides an excellent blend of ultra 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, %	60.0	56.0	64.0
Viscosity, ML/4/212° F	92.0	85.0	99.0

#### COMPOUND

<u>Test Recipe (ASTM D3185-1A Modified)</u>		<u>Rheometer - ASTM D2084</u> <u>1° Arc, 320° F</u>	
Duradene 739	100.00	tc10 (min)	10.5
IRB 7	50.00	tc50 (min)	14.0
Zinc Oxide	3.00	tc90 (min)	20.0
Stearic Acid	1.00	ML (lbs-in)	4.5
Naphthenic Oil	15.00	MH (lbs-in)	31.0
Sulfur	1.75		
TBBS	<u>1.00</u>		
	171.75	Compound ML/4/212° F	77.0

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