

# Duradene®

## 741

Duradene 741 is a solution polymerized, tin coupled, styrene-butadiene copolymer having 5% bound styrene, 28% vinyl, and a non-staining antioxidant stabilizer system. The unique combination of tin coupling and low Tg provides extremely low hysteresis and good abrasion resistance 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, %	5.0	4.0	6.0
Vinyl, %	28.0	25.0	31.0
Viscosity, ML/4/212° F	60.0	55.0	65.0

#### COMPOUND

<u>Test Recipe (ASTM D3185-1B Modified)</u>		<u>Rheometer - ASTM D2084</u> <u>1° Arc, 320° F</u>	
Duradene 741	100.00	tc10 (min)	9.0
IRB 7	50.00	tc50 (min)	12.0
Zinc Oxide	3.00	tc90 (min)	16.0
Stearic Acid	1.00	ML (lbs-in)	5.5
Naphthenic Oil	15.00	MH (lbs-in)	38.0
Sulfur	1.75		
TBBS	<u>1.00</u>		
	171.75	Compound ML/4/212° F	35.0

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