

Duradene®

711

Duradene 711 is a non-oil extended solution polymerized styrene-butadiene copolymer having 18% bound styrene and a slightly staining antioxidant stabilizer system. Duradene 711 can be used in formulas with low black and oil loadings where good wear and hysteresis are desired.

SPECIFICATIONS

RAW POLYMER:

<u>Properties</u>	<u>Target</u>	<u>Minimum</u>	<u>Maximum</u>
Volatile Matter, %	-	-	0.5
Bound Styrene, %	18.0	17.0	19.0
Viscosity, ML/4/212° F	70.0	65.0	75.0

COMPOUND:

Test Recipe (ASTM D3185-1A MIM)

Rheometer (ASTM D2084) 1° Arc, 320°F

Duradene 711	100.00	tc10 (min)	5.0 ± 2.0
IRB 7	50.00	tc50 (min)	9.0 ± 2.0
Zinc Oxide	3.00	tc90 (min)	11.0 ± 2.5
Stearic Acid	1.00	ML (lbs-in)	19.5 ± 2.0
Sulfur	1.75	MH (lbs-in)	53.0 ± 4.0
TBBS	<u>1.00</u>		
	156.75	MS/4/212°F	95.0 ± 10.0

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