



PRODUCT DATA

CARBOMIX® 1848R

CARBOMIX®1848R is designed especially for tread rubber and extruded goods. This masterbatch produces compounds with excellent extrusion characteristics, abrasion resistance, and tread wear approaching that of equivalent ISAF masterbatches, but at a lower cost. A low Mooney version (CARBOMIX®1848K) is available for operations such as mill mixing that require easier processing.

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Description

23.5% Bound Styrene SBR	100.0 parts
N339 Carbon Black(HAF-HS)	82.5 parts
Highly Aromatic Oil	62.5 parts
Stabilizer	Staining
Emulsifier	Mixed Acid
Coagulant	Acid
Specific Gravity	1.14

Specifications

Volatile content, % max.	0.50
Organic Acid content, %	3.00 ± 1.00
Oil Content, %	25.45 ± 1.45
Carbon Black Content, %	33.55 ± 1.75
Unmilled Viscosity	75 ± 10

Rheometer Properties

ML, in-lbs.	1.9 ± 1.0
MH, in-lbs.	8.8 ± 2.0
ts1, minutes	4.7 ± 1.2
t'90, minutes	13.8 ± 2.5

Stress Strain Properties, PSI

Tensile	2100 min.
300% Modulus	800 ± 300
Elongation%	600 min

Standard Test Formula

CARBOMIX®1848R	245.00
Zinc Oxide	3.00
Stearic Acid	1.50
TBBS	1.25
Sulfur	1.75

Test Methods

Volatiles	ASTM D5668
Acid/Oil	ASTM D5774
Unmilled Mooney Viscosity	ASTM D1646 UMS1+4@100 °C
Rheometer Properties	ASTM D5289 100cpm, 0.5 degree arc, 160 °C, 0 preheat
Stress Strain	ASTM D412 Cured 35' @ 145°C
MIM mix	ASTM D3186

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