



PRODUCT DATA

CARBOMIX® 1606R

CARBOMIX®1606R is a general purpose SBR oil/black masterbatch based on a cold polymerized polymer. It offers excellent physical properties and outstanding processing characteristics due to the complete dispersion of the carbon black and processing oil in the polymer. CARBOMIX®1606R is recommended for use in tires, tread rubber, and molded and extruded mechanical goods. A lower Mooney version is available when easier processing is required.

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Description

23.5% Bound Styrene SBR	100.0 parts
N330 Carbon Black(HAF)	52.0 parts
Highly Aromatic Oil	10.0 parts
Stabilizer	Staining
Emulsifier	Rosin Acid
Coagulant	Acid
Specific Gravity	1.13

Specifications

Volatile content, % max.	0.50
Organic Acid content, %	3.75 ± 1.00
Oil Content, %	6.15 ± 0.65
Carbon Black Content, %	31.95 ± 1.75
Unmilled Viscosity	65 ± 10

Rheometer Properties

ML, in-lbs.	2.0 ± 1.0
MH, in-lbs.	16.1 ± 2.0
ts1, minutes	3.8 ± 1.2
t'90, minutes	12.8 ± 2.5

Stress Strain Properties, PSI

Tensile	3150 min.
300% Modulus	1600 ± 300
Elongation%	450 min

Standard Test Formula

CARBOMIX®1606R	162.00
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' @ 145C
MIM mix	ASTM D3186	

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