

PRODUCT DATA

CARBOMIX® 1609

CARBOMIX®1609 is a cold emulsion SBR oil/black masterbatch intended for premium tread rubber applications. It offers the ultimate in physical properties while maintaining good processing characteristics due to the complete dispersion of the SAF carbon black and the oil.

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Description

23.5% Bound Styrene SBR	100.0 parts
N110 Carbon Black(SAF)	40.0 parts
Highly Aromatic Oil	5.0 parts
Stabilizer	Staining
Emulsifier	Rosin Acid
Coagulant	Acid
Specific Gravity	1.12

Specifications

Volatile content, % max.	0.50
Organic Acid content, %	4.00 ± 1.00
Oil Content, %	3.40 ± 0.5
Carbon Black Content, %	27.5 ± 1.6
Unmilled Viscosity	70 ± 10

Rheometer Properties

ML, in-lbs.	1.9 ± 1.0
MH, in-lbs.	15.7 ± 2.0
ts1, minutes	4.5 ± 1.2
t'90, minutes	14.7 ± 2.5

Stress Strain Properties, PSI

Tensile	3500 min.
300% Modulus	1250 ± 300
Elongation%	450 min

Standard Test Formula

CARBOMIX®1609	145.00
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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