



PRODUCT DATA

CARBOMIX® 1847K

CARBOMIX®1847K is designed especially for operations where fast, smooth extrusions are necessary. This masterbatch, based on a cold-polymerized polymer, gives compounds with excellent extrusion characteristics, and tread wear equivalent to ISAF masterbatches of similar compositions, but at a lower cost. This low Mooney version is available for operations such as mill mixing that require easier processing.

Notice: Although every effort has been made to ensure that the information provided herein is correct, Lion Copolymer disclaims any warranties which may be implied, including warranties of merchantability and/or fitness for a particular purpose. Product users are responsible for determining (a) the suitability of the product for its intended use and (b) the appropriate manner of processing the product to ensure safety and quality. New product literature is published as specifications are changed. Please contact Lion Copolymer technical sales personnel to be sure you have the most up-to-date information, and to assist you should there be any questions regarding our products.

Description

23.5% Bound Styrene SBR	100.0 parts
N339 Carbon Black(HAF-HS)	75.0 parts
Highly Aromatic Oil	50.0 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, %	22.15 ± 1.35
Carbon Black Content, %	33.20 ± 1.70
Unmilled Viscosity	55 ± 10

Rheometer Properties

ML, in-lbs.	1.6 ± 1.0
MH, in-lbs.	9.3 ± 2.0
ts1, minutes	4.7 ± 1.2
t'90, minutes	13.6 ± 2.5

Stress Strain Properties, PSI

Tensile	2050 min.
300% Modulus	820 ± 300
Elongation%	600 min

Standard Test Formula

CARBOMIX®1847R	225.00
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	

5955 Scenic Highway • Baton Rouge, LA 70805-2044
800 / 535-9960 • www.lioncopolymer.com

Copo and Carbomix are registered trademarks of Lion Copolymer, LLC
CB1847K issued 10/10; supersedes all previous