



PRODUCT DATA

COPO® DS594

COPO®DS594 is a general purpose, oil extended SBR made by the cold emulsion process. It is used in applications requiring excellent abrasion resistance, including tires and tread, camelback, and molded and extruded goods.

It was designed to meet the requirement of the EU regulation banning oil containing high levels of PAH's.

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Description

23.5% Bound Styrene SBR	100.0 parts
Heavy Naphthenic Oil	37.5 parts
Stabilizer	Staining
Emulsifier	Mixed Acid
Coagulant	Acid
Specific Gravity	0.935

Specifications

Volatile content, % max.	0.75
Organic Acid content, %	4.6 ± 1.4
Oil Content, %	27.1 ± 1.6
Raw Viscosity	46.5 ± 4.5

Rheometer Properties

ML, in-lbs.	TBD
MH, in-lbs.	TBD
ts1, minutes	TBD
t'90, minutes	TBD

Stress Strain Properties, PSI

Tensile	TBD.
300% Modulus	TBD
Elongation%	TBD

Standard Test Formula

COPO ® DS594	137.50
IRB#7 Carbon Black	68.75
Zinc Oxide	3.00
TBBS	1.38
Sulfur	1.75
Stearic Acid	1.00

Test Methods

Volatiles	ASTM D5668
Acid	ASTM D5774
Raw Mooney Viscosity	ASTM D1646 MML1+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 D3185-2B

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