

## Technical Data Sheet

# Ricon® 100 / Ricon® 100 KC

## Butadiene-Styrene Copolymer

### DESCRIPTION:

Ricon® 100 is a low molecular weight, liquid copolymer of butadiene and styrene with moderately high vinyl functionality for high reactivity, exceptional hydrophobicity and excellent processing characteristics. This resin is suitable for use in peroxide and sulfur-cured elastomers, where it acts as a non-extractable plasticizer and process aid. Its polymeric structure gives excellent compatibility in saturated and unsaturated elastomers, especially elastomers with styrenic and aromatic content.

### PRODUCT HIGHLIGHTS / PERFORMANCE PROPERTIES:

- Non-extractable process aid
- Electrical insulator
- Excellent dielectric properties
- Excellent hydrophobicity
- High reactivity
- Low temperature flexibility
- Excellent compatibility with elastomers
- Enhanced tire traction with low rolling resistance
- Coagent for elastomer cure
- Good hardness
- Scorch protection
- Good compression set
- Abrasion resistance
- High tear strength

### SUGGESTED APPLICATIONS:

- Coatings
- Electronics
- Laminates
- Tire tread
- Encapsulants
- Rubber
- Flexographic printing plates

### TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

Property	Test Method	Value	Unit
Molecular Weight (Mn)	QCS-651 / Q 34.03 P019	4,500	g/mol
1,2 Vinyl Content*	QCS-642 / Q 34.03 P040	70	wt. %
Styrene Content	QCS-642	20	wt. %
Viscosity @ 45°C	QCS-630 / Q 34.03 P035	40,000	cps
Tg	QCS-681	-15	°C
Specific Gravity @ 25°C	QCS-649	0.90	-

\*Butadiene portion

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