



## PRODUCT DATA

### CARBOMIX® 1815R

CARBOMIX®1815R is an economical cold emulsion oil extended SBR masterbatch with a high level of HAF carbon black and non-staining oil. A low Mooney version (CARBOMIX®1815K) is designed for operations such as mill mixing that require easier processing.

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#### Description

|                         |              |
|-------------------------|--------------|
| 23.5% Bound Styrene SBR | 100.0 parts  |
| N330 Carbon Black(HAF)  | 75.0 parts   |
| Treated Naphthenic Oil  | 50.0 parts   |
| Stabilizer              | Non-Staining |
| Emulsifier              | Mixed Acid   |
| Coagulant               | Acid         |
| Specific Gravity        | 1.12         |

#### 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       | 70 ± 10      |

#### Rheometer Properties

|               |            |
|---------------|------------|
| ML, in-lbs.   | 1.9 ± 1.0  |
| MH, in-lbs.   | 9.8 ± 2.0  |
| ts1, minutes  | 4.0 ± 1.2  |
| t'90, minutes | 14.9 ± 2.5 |

#### Stress Strain Properties, PSI

|              |            |
|--------------|------------|
| Tensile      | 2150 min.  |
| 300% Modulus | 1100 ± 300 |
| Elongation%  | 500 min    |

#### Standard Test Formula

|                |        |
|----------------|--------|
| CARBOMIX®1815R | 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,<br>0.5 degree arc,<br>160° C, 0 preheat |
| Stress Strain             | ASTM D412 Cured 35' @145°C                                 |
| MIM mix                   | ASTM D3186                                                 |

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