LION COPOLYMER, LLC

# PRODUCT DATA

## COPO® 1712C

COPO®1712C 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. Other Mooney viscosity grades of this product are also available to meet different processing requirements.



### Description

| | |
|---|---|
| 23.5% Bound Styrene SBR | 100.0 parts |
| Highly Aromatic Oil | 37.5 parts |
| Stabilizer | Staining |
| Emulsifier | Mixed Acid |
| Coagulant | Acid |
| Specific Gravity | 0.95 |

### 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. | 2.5 ± 1.0 |
| MH, in-lbs. | 12.6 ± 2.0 |
| ts1, minutes | 3.7 ± 1.2 |
| t'90, minutes | 11.0 ± 2.5 |
| | |
| Stress Strain Properties, PSI | |
| Tensile | 2800 min. |
| 300% Modulus | 1400 ± 300 |
| Elongation% | 450 min |

### Standard Test Formula

| | |
|---|---|
| COPO ® 1712C | 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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