



PRODUCT DATA

COPO[®] 1507

COPO[®]1507 is a low Mooney version of COPO[®] 1502, the standard non-staining SBR polymer produced by the cold emulsion process. COPO[®] 1507 is designed as an easy processing polymer, and can be used in compounds that require high filler loadings. Its excellent non-discoloring, non-staining characteristics make it ideal for white or light-colored stocks. COPO[®] 1507 also falls within the guidelines of the FDA regulations for certain food contact applications.

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Description

| | |
|-------------------------|--------------|
| 23.5% Bound Styrene SBR | 100.0 parts |
| Stabilizer | Non-staining |
| Emulsifier | Mixed Acid |
| Coagulant | Acid |
| Specific Gravity | 0.94 |

Specifications

| | |
|--------------------------|-------------|
| Volatile content, % max. | 0.75 |
| Organic Acid content, % | 6.00 ± 1.00 |
| Raw Viscosity | 35 ± 5 |

Rheometer Properties

| | |
|---------------|------------|
| ML, in-lbs. | 2.0 ± 1.0 |
| MH, in-lbs. | 17.3 ± 2.0 |
| ts1, minutes | 3.6 ± 1.2 |
| t'90, minutes | 13.0 ± 2.5 |

Stress Strain Properties, PSI

| | |
|--------------|------------|
| Tensile | 2950 min. |
| 300% Modulus | 2100 ± 300 |
| Elongation% | 350 min |

Standard Test Formula

| | |
|------------------------|--------|
| COPO [®] 1507 | 100.00 |
| IRB#7 Carbon Black | 50.00 |
| Zinc Oxide | 3.00 |
| TBBS | 1.00 |
| 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 D3185-1A |

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