



PRODUCT DATA

CARBOMIX® 3781

CARBOMIX®3781 is a specialty SBR Masterbatch designed for tire tread and high performance mechanical goods applications. This masterbatch incorporates N234 Carbon Black which offers exceptional abrasion resistance

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Description

| | |
|-------------------------|-------------|
| 23.5% Bound Styrene SBR | 100.0 parts |
| N234 Carbon Black(ISAF) | 75.0 parts |
| Highly Aromatic Oil | 50.0 parts |
| Stabilizer | Staining |
| Emulsifier | Mixed Acid |
| Coagulant | Acid |
| Specific Gravity | 1.14 |

Specifications

| | |
|--------------------------|--------------|
| Volatile content, % max. | 0.50 |
| Ash, % max | 0.50 |
| Organic Acid content, % | 3.30 ± 0.60 |
| Soap, % max | 0.25 |
| Oil Content, % | 22.25 ± 1.35 |
| Carbon Black Content, % | 33.35 ± 1.35 |
| Compound Viscosity | 50 ± 5 |

Rheometer Properties

| | |
|---------------|-----------|
| ML, in-lbs. | TBD ± 0.5 |
| MH, in-lbs. | TBD ± 2.0 |
| ts1, minutes | TBD ± 1.2 |
| t'90, minutes | TBD ± 2.5 |

Standard Test Formula

| | |
|---------------|--------|
| CARBOMIX@3781 | 225.00 |
| Zinc Oxide | 3.00 |
| Stearic Acid | 1.50 |
| TBBS | 1.25 |
| Sulfur | 1.75 |

Test Methods

| | |
|---------------------------|------------|
| Volatiles | ASTM D5668 |
| Ash | ASTM D5667 |
| Soap | ASTM D5774 |
| Acid/Oil | ASTM D5774 |
| Compound Mooney Viscosity | ASTM D1646 |
| Rheometer Properties | ASTM D5289 |
| MIM mix | ASTM D3186 |

CML1+4@100°C
100cpm,
0.5 degree arc,
160°C, 0 preheat

5955 Scenic Highway • Baton Rouge, LA 70805-2044
800 / 535-9960 • www.lioncopolymer.com

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CB3781 issued 10/10; supersedes all previous