

Description

Emulprene 1783 is a copolymer styrene – butadiene cold emulsion polymerized used fatty and rosin acid as emulsifier, coagulated by salt-acid system and it is extended utilizing 37.5 phr of RAE (Residual Aromatic Extract).

Packing

This product is commercialized in 34 ± 1 Kg rectangular bales individually wrapped in low melting point polyethylene film and shipped in 36-bale cardboard boxes.

Uses

Emulprene 1783 is used in the manufacture of tires, retreading, conveyor belts, hoses, mechanical goods for its excellent processing properties.

Storage

Store in dry and ventilated area where it will not be exposed to direct sunlight, extreme temperatures or sources of ignition.

Please consult Emulprene 1783 Safety Data Sheet (SDS) for more detailed handling and storage information.

Chemical properties

| Property | Test method | Value |
|-------------------------|-------------|-------------|
| Volatile matter %, Max. | ASTM D5668 | 0.8 |
| Ash, %, Max. | ASTM D5667 | 0.8 |
| Organic Acid, % | ASTM D5774 | 3.0 – 6.0 |
| Soap, %, Max. | ASTM D5774 | 0.5 |
| Oil, % | ASTM D5774 | 25.0 – 29.0 |
| Bound Styrene, % | ASTM D5775 | 22.5 – 24.5 |

Physical properties

| Property | Test method | Value |
|--|-------------|------------|
| Mooney Viscosity, (ML1+4 at 100°C), MU | ASTM D1646 | 45 - 55 |
| *Compound Mooney Viscosity, (ML1+4 at 100°C), MU | ASTM D1646 | 66 |
| Tensile Strength, MPa, Min | ASTM D412 | 18.3 |
| Modulus at 300%, MPa | ASTM D412 | 3.3 – 13.3 |
| Elongation at break, % Min. | ASTM D412 | 398.4 |

Rheometrical Test (ODR2000)

| Property | Test method | Value |
|---------------------------|-------------|-------------|
| ML, lb-in | ASTM D2084 | 5.4 - 7.3 |
| MH, lb-in | ASTM D2084 | 26.0 - 32.0 |
| t _s 1, min | ASTM D2084 | 4.3 - 6.2 |
| t _c (90) , min | ASTM D2084 | 11.3 - 17.3 |

*ASTM D3185-2B TEST RECIPE I

January, 2019