Emulprene 1778R

Emulsion

Technical Data

Description

Emulprene 1778R is a cold emulsion styrene-butadiene copolymer, polymerized using fatty acid and rosin acid as emulsifier, coagulated by salt-acid system and it is extended utilizing 37.5phr of naphthenic oil and meets the European directive 2005/69/EC.

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 1778R is used in the manufacture of tires and industrial products 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 1778R Safety Data Sheet (SDS) for more detailed handling and storage information.

Chemical properties

Property	Test method	Value
Volatile matter, % Max.	ASTM D5668	0.7
Ash, %, Max.	ASTM D5667	0.7
Organic Acid, %	ASTM D5774	3.6 - 6.4
Soap, %, Max.	ASTM D5774	0.5
Oil, %	ASTM D5774	25.6 – 29.6
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 - 50
*Compound Mooney Vicosity, (ML1+4 at 100°C), MU, Max.	ASTM D1646	64
Tensile Strength, MPa Min	ASTM D412	17.5
Modulus at 300%, MPa,	ASTM D412	7.0 – 11.7
Elongation at break, % Min.	ASTM D412	440

Rheometical Test (ODR2000)

Property	Test method	Value
ML, lb-in	ASTM D2084	5.0 – 8.0
MH, lb-in	ASTM D2084	25.2 – 32.5
ts1, min	ASTM D2084	3.2 – 6.3
tc(90) , min	ASTM D2084	11.5 – 16.3

(*) ASTM D3185-2B TEST RECIPE

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