Emulprene 1778

Emulsion

Technical Data

Description

Emulprene 1778 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 parts of naphthenic oil.

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

Emulpene 1778 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 1778 Material Safety Data Sheet (MSDS) for more detailed handling and storage information.

Chemical properties

Property	Test method	Unit	Value
Volatile matter	ASTMD 5668	(%)	0.7 max.
Ash	ASTMD 5667	(%)	0.75 max.
Organic Acid	ASTMD 5774	(%)	3.5 - 6.5
Soap	ASTMD 5774	(%)	0.5 max.
Napthenic oil	ASTMD 5774	(%)	25.3 – 29.3
Bound Styrene	ASTMD 5775	(%)	22.5 - 24.5

Physical properties

Property	Test method	Unit	Value
Mooney Viscosity	ASTM D1646	ML1+4*(100°C)*	45 - 50
*Compound Mooney Vicosity	ASTMD 1646	ML1+4*(100°C)*	64 max.
Tensile Strength	ASTMD 3185	MPa	19.0 min.
Modulus	ASTMD 3185	MPa	10.4 – 13.6
Elongation at break	ASTMD 3185	(%)	430 min.

Rheometical Test (ODR2000)

Property	Test method	Unit	Value
ML	ASTMD 2084	Lb_f/in	5.3 – 8.3
MH	ASTMD 2084	Lb_f/in	27.7- 32.2
t_s1	ASTMD 2084	Min	3.2 - 6.2
$t_c(90)$	ASTMD 2084	Min	12.5–17.5

**ASTMD 3185-2B TEST RECIPE IRB#7*

July, 2016