

S masterbatch (Sulfur vulcanizing agent)

- **SULFUR**
- **Molecular Weight** : 32
- **CAS** : 7704-34-9 **S(n)**
- **EINECS** : 231-722-6

PRODUCT	Active Content (%)	Color N for Natural P for Pigment	Filtration (µm)	Mooney ML (1+4) 80°C Typical value	Density Typical value
S 80 GA F500	80	Yellow to yellowish* (N)	500	20	1.6
S M300 80 GA F140			140		

GA: Granules co-polymer of acetate/acrylate & polyethylene

* Depending on natural variation of S

ACTIVE MATERIAL TYPICAL VALUES

- Melting point : 119 °C

REMARKS

Non-blooming

PROPERTIES

Mixland+® S masterbatch is commonly used as a vulcanizing agent for all unsaturated elastomers (especially NR, SBR and NBR). Thanks to the binder, different Mixland+® grades of sulfur have better solubility in rubber than sulfur powder form, hence that decreases blooming issue and improve dispersion time, especially in NBR compound.

It is also used in some neoprene compounds as cure activator, and to improve storage stability.

In vulcanization, Mixland+® S masterbatch has poor thermal stability and poor stability with basic accelerators to improve reversion and heat resistance, mixture with sulfur donor is recommended.

For ebonite formation, use 20 to 40% of sulfur give hard product with good violating properties.

APPLICATIONS

Tires, plied-up rubber goods, transparent and colored goods, conveyor belts, shoe soles, hoses, ebonite, etc...

For light color application, we recommend our finer grade MIXLAND+® SM300 80 GA F140. As MLPC's standard sulfur masterbatch: MIXLAND+® S 80 GA F500 is sieved at only 120 mesh, while MIXLAND+® SM300 80 GA F140 is sieved at 300 mesh, therefore particles are finer. This grade prevents dark dots to appear on the surface of the rubber part.

Also, MIXLAND+® SM300 80 GA F140 is filtered at 140µ, whereas MIXLAND+® SM120 is filtered at only 500µ, another technical improvement to avoid defects on surface.

PACKAGING & STORAGE

PE bags weight : 20 kg net on Standard CP3 pallet of 640 kg net

Do not pile more than 2 pallets height

Shelf-life : **2 years** in its original packaging

Store in a dry and cool place and away from direct sources of heat or sunlight.

SAFETY & TOXICITY

For detailed information, please refer to our Material Safety Data Sheet.

NITROSAMINE FREE

MIXLAND+® MASTERBATCH ALLOWS:

- Dust free products with a high level of filtration up to 100µ
- Tack free products at room temperature
- Lower Mooney viscosity, improving quality of dispersion
- Scrap rate reduction thanks to filtration
- Wider compatibility with elastomers

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TECHNICAL DATA SHEET

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ARKEMA

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