

ESUNG

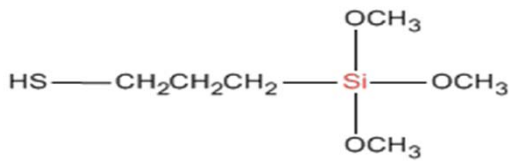
ESL8380

Silane coupl agent Product Data Sheet

PRODUCT DESCRIPTION

ESL8380 is gamma-Mercaptopropyltrimethoxysilane. (3-Trimethoxysilypropylmercaptan)

Chemical Institution:



DESCRIPTION

- HSL8380 is a mercapto-functional silane that finds use as a coupling agent in polysulfide and polyurethane caulks and sealants. It is especially useful in sulfur-cured and metal oxide-cured elastomers. Chemically bonding reinforcing minerals like silica, clay, mica and talc to the polymer matrix, properties including modulus, tensile and tear strength, heat buildup, abrasion resistance, resilience, compression set and cure time are improved in mineral-filled elastomers. It can be used as a pretreatment on minerals or added at the time of compounding. Being a rather efficient and fast sulfur containing silane, typically lower silane loading levels are used.

APPLICATIONS

- Improves the adhesion of polysulfide and polyurethane sealants to glass and metal surfaces.
- Improves low-rolling resistance in silica reinforced tire tread compounds.
- Enhances properties in mineral-reinforced articles such as shoe soles, rubber goods.
- Suitable for use in polymer such as Butyl, Epoxy, Neoprene, Nitrile, Phenolic, Polysulfide, Polyurethane.

TYPICAL PRODUCT DATA

Appearance	Clear liquid, Light straw
Molecular Weight	196
Specific Gravity at 25/25 °C	1.050
Refractive Index nD 25 °C	1.440
Flash point, Tag Closed Cup °C	88
Boiling Point °C	93

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SOLUBILITY

- ESL8380 is soluble in methanol, ethanol, isopropanol, mineral spirits, acetone, benzene, toluene, xylene, and in water when suitable hydrolysis procedures are followed.

STORAGE AND HANDLING

- ESL8380 is shipped in baked epoxy/phenolic-lined steel drums. It discolors noticeably if it is handled in steel equipment, stain-less steel or aluminum are suitable materials of construction.
- Keep containers tightly sealed to avoid contact with moisture.

PACKAGE

- 1kg CAN.