

Silquest™ A-151 Silane

Description

Silquest A-151 silane (vinyltriethoxysilane) is a general-purpose coupling agent used with mineral-filled polyolefin and elastomeric compounds.

Silquest A-151 silane can be added as a monomer during emulsion polymerization to form silane-modified latexes that function as crosslinkers, forming very stable Si-O-Si linkages.

Key Features and Typical Benefits

- Vinyl functionality allowing free radical addition to polymers
- Increased rate of silane hydrolysis
- Excellent wet and dry adhesion to inorganic substrates
- Crosslinking functionality in vinyl, vinyl acrylic and acrylic resins

Typical Physical Properties

Appearance	Clear liquid
Color	Colorless to light straw
Specific Gravity, g/cm ³ , at 25 °C	0.91
Refractive Index n _D 25/25 °C	1.397
Flash Point, Tag closed cup, ASTM D56-79	44 °C (111 °F)
Boiling Point	161 °C (321 °F)

Typical properties are average data and are not to be used as or to develop specifications.

Potential Applications

- Coupling agent for mineral fillers such as mica, talc, clay, silica, etc. to polyolefins and elastomers in compounds for the cable and wire industry
- Crosslinker for polyethylenes

General Considerations for Use

Silquest A-151 silane is soluble in water once it has been hydrolyzed. Hydrolysis can typically be aided by adjusting the pH of the water to between 5.0-5.5 with acetic acid prior to addition of the silane.

Patent Status

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Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas	Latin America	EMEAI- Europe, Middle East, Africa & India	ASIA PACIFIC
+1 800 295 2392	Brazil	Europe	China
Toll free*	+55 11 4534 9650	+390510924300	800 820 0202
+704 805 6946	Direct Number	Direct number	Toll free
Direct Number			+86 21 3860 4892
			Direct number
*All American countries	Mexico	India, Middle East & Africa	Japan
	+52 55 2169 7670	+ 91 44 71212207	+81 3 5544 3111
	Direct Number	Direct number*	Direct number
		*All Middle Eastern countries, Africa, India,	Korea
			+82 2 6201 4600

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