

PROSILANE™ SC-6120

VINYLTRIETHOXSILANE

PRODUCT DESCRIPTION

SC-6120, Vinyltriethoxysilane is an organosilane compound with a reactive vinyl group and three ethoxy groups. It is commonly used as a coupling agent, adhesion promoter, and crosslinking agent in various applications. It hydrolyzes in water to produce silanols and ethanol, enabling strong bonding with inorganic substrates. The organophilic vinyl end of SC-6120 can also react with a suitable polymer (activated by peroxide or radiation)

TYPICAL PRODUCT DATA*

Property	Unit	Typical Value
CAS\$	-	78-08-0
Molecular Weight	g/mol	190.4
Formula		C ₈ H ₁₈ O ₃ Si
Appearance	-	Colorless clear liquid
Boiling Point	°C	160
Flash Point	°C	44
Refractive Index	-	1.397
Density	g/cm ³	0.906
Purity	%	≥98%

* These values are not intended to be used as specifications but as suggested characteristics

PACKAGING

The size of the available packages can be checked with Sales Department. SC-6120 is typically supplied in 180kg steel drums and 950kg IBC totes.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEET AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION.

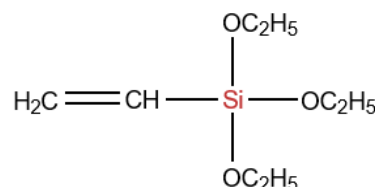
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TECHNICAL DATA SHEET



TYPICAL FEATURES AND APPLICATIONS

SC-6120 is suitable for the preparation of moisture-curing polymers, e.g. polyethylene. Silane crosslinked polyethylene is widely used as cable isolation, and sheathing mainly in low voltage applications as well as for hot water/sanitary pipes and underfloor heating. It is also used as a co-monomer for the preparation of different polymers such as polyethylene or acrylics. Those polymers show an improved adhesion to inorganic surfaces and they can also be crosslinked with moisture.

SC-6120 is used as an efficient adhesion promoter for various mineral-filled polymers, improving mechanical and electrical properties especially after exposure to moisture. It is also used as moisture scavenger and reacts rapidly with water. This effect is used widely in sealants.

INFORMATION FOR USE

This silane can bond to a variety of inorganic substrates or react with each other to form siloxane bonds (Si-O-Si). IT may be used to improve the bond between glass fiber or mineral fillers and resins that are reactive towards the vinyl group.

SC-6120 is used to improve the compatibility of fillers with polymers, leading to a better dispersibility, reduced melt viscosity and easier processing of filled plastics. SC-6120 is used to pretreat of glass, metals, or ceramic surfaces, improve the adhesion of coatings on these surfaces and corrosion resistance.

SHELF LIFE AND STORAGE

In the unopened original container SC-6120 has a shelf life of one year in a dry and cool place.