

Silane USi-412

Vinyl functional alkoxy silane

Product Description

Chemical Name:

Vinyl-tri(β -methoxyethoxy)silane

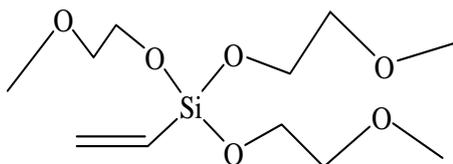
Synonym:

Tris(2-methoxyethoxy)vinylsilane

CAS NO.: 1067-53-4

EINECS NO.: 213-934-0

Chemical structure:



Properties

Silane USi-412 acts as an adhesion promoter for various mineral-filled polymers improving their mechanical and electrical properties, especially after exposure to moisture. Once bonded to an inorganic filler.

Silane USi-412 hydrophobises the filler surface. This effect improves the compatibility of fillers with the polymer matrix, leading to a better dispersibility, reduced melt viscosity and easier processing of filled plastics.

Polymer dispersion, modified with silane USi-412 show improved adhesion strength in wet conditions and wet scrub resistance.

Typical Technical Data

The below values are not intended for use in preparing specifications. Please confirm with us prior to writing specifications on this product.

Appearance: Colorless transparent liquid

Colour (Pt-Co): 25 max

Specific Gravity ($\rho_{20^{\circ}\text{C}}$, g/cm³): 1.033~1.035

Refractive Index ($n_D^{25^{\circ}\text{C}}$): 1.4275~1.4295

Purity (by GC, %): 98.0 min

Applications

Silane USi-412 is an vital additive in many industries such as:

- Enhances electric property and mechanical strength:
As the surface treating agent for the pottery clay and siliceous inorganic filler
- Enhances mechanical strength of composite materials:
It can reduce the water absorbability, electric property and mechanical strength of the cross-linked polyester mould pressing materials.
- In the glass fiber application:
It enhances the binding power of resins

Safety & Storage

Customers should review the latest MSDS and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS is available at www.usi-chemical.com or upon request.

Keep away from heat and open flame.
When stored at normal temperature in the original unopened containers, this product has a usable life of 12 months from the date of production.

Packaging

In 25kg, 200kg drum and 1000kg IBC

Contact Information

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