

Manta S311

Isocyanate functional alkoxy silane

Description

Silane Manta S311 has a low basicity and dispersed alkoxy groups relative to other adhesion promoters, which results in sealants displaying excellent elastomeric properties.

Silane Manta S311 functions as an adhesion promoter for a variety of substrate/matrix resin combinations. It is especially useful in high performance hot melt adhesives and other applications where exposure to sustained temperatures might occur.

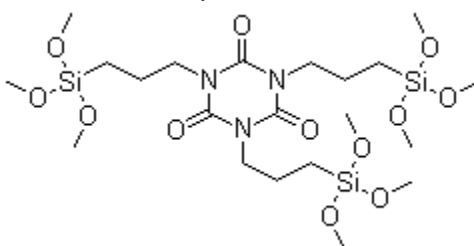
The Equivalent List

Manta	Momentive	Dow	Evonik	Wacker	Shin-Etsu
S311	A-Link597/Y11570/Y1597				

Typical Physical Properties

Manta code:	S311
Chemical Name:	1,3,5-tris[3-(trimethoxysilyl)propyl]isocyanurate
Synonyms	Tris(3-trimethoxysilylpropyl)cyclotriisocyanurate; Tris[(trimethoxysilyl)propyl]isocyanurate;
CAS No. :	26115-70-8
EINECS No. :	247-465-8
Molecular weight:	615.85
Appearance:	Colorless or yellowish transparent slightly viscous liquid
Purity (by GC, %)	95.0 min
Specific Gravity ($\rho_{20^{\circ}\text{C}}$, g/cm ³)	1.170~1.185
Refractive Index ($n_D^{25^{\circ}\text{C}}$):	
Boiling Point:	250 °C
Flash point:	102 °C closed cup

Chemical Structure:



Properties

- Improved adhesion to difficult substrates such as plastics, glass and metals including aluminum and steel
- Thermal stability at 200°C
- High boiling point, low volatility for better silane retention in hot melt adhesive application conditions
- Compatible with most hotmelt resins

Applications

Silane Manta S311 has a characteristic low volatility and oxidative stability that makes it well suited as

- 1) Adhesion promoter in SPUR+* prepolymer-based sealants, clearly exhibits improved adhesion to difficult substrates without sacrificing the flexibility of sealants as do aminosilane adhesion promoters.
- 2) Silane Adhesion Promoter in higher temperature applications such as hot melt adhesives.

Packaging

In 20KG, 25kg iron pail, 200KG drum

Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Shelf life is min. 12 months. It is shipped as hazardous substance.

Contact Information

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