

Product Information

Dynasylan® TRIAMO

Triamino-functional propyltrimethoxysilane

PRODUCT DESCRIPTION

Dynasylan® TRIAMO is an organofunctional silane possessing three reactive amino groups and a hydrolyzable trimethoxysilyl group. The dual nature of its reactivity allows Dynasylan® TRIAMO to bind chemically to both inorganic materials (e.g. glass, metals, fillers) and organic polymers (e.g. thermosets, thermoplastics, elastomers), thus functioning as an adhesion promoter and surface modifier. Dynasylan® TRIAMO is a clear, light to dark yellow liquid with a slight amine-like odor. It is soluble in alcohols, ketones, esters and aliphatic and aromatic hydrocarbon solvents.

Typical Properties

Property	Unit	Value
Boiling Point, min. (3 hPa) DIN 51356	°C	114
Chemical Name	N''-2-Aminoethyl-N'-2-aminoethyl-N-3-aminopropyl-trimethoxysilane	
Color	colorless to yellow	
Density (20 °C) DIN 51757	g/cm ³	~1.04
Flash Point, min. DIN EN ISO 2719	°C	164
Refractive Index (20,D) DIN 51423		1.46
Viscosity (20 °C) DIN 53015	mPa·s	23

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Dynasylan® TRIAMO is used in applications such as:

- PVC-pastisols as an additive (ca. 0.5-1%) to improve adhesion between PVC and metals
- Foundry resins

BENEFITS & ADVANTAGES

Important product effects that can be achieved through the use of Dynasylan® TRIAMO include:

- Improved adhesion
- Improved moisture and corrosion resistance

DOSAGE

Dynasylan® TRIAMO may be added to polymer matrix as an additive. In the presence of water, the methoxy (Si-OCH₃) groups of Dynasylan® TRIAMO hydrolyze to form reactive silanol (Si-OH) groups which can bond to a variety of inorganic substrates. The amine groups of Dynasylan® TRIAMO can react with a suitable polymer. Dynasylan® TRIAMO may be used with PVC and silicones.

HANDLING & PROCESSING

Before considering the use of Dynasylan® products please read its Safety Data Sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use.

The Safety Data Sheet is available on our website <https://silanes.evonik.com/en> or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

PACKAGING

Dynasylan® TRIAMO is supplied in 25, 200 kg drums and 950 kg IBC container.

SHELF LIFE

In an unopened container Dynasylan® TRIAMO has a shelf life of min. 12 months from delivery.

Registration Listings

Registry	Status
Australia (AIIC)	Yes
Canada (DSL)	Yes

Registration Listings

Registry	Status
Switzerland (ChemO)	Yes
China (IECSC)	Yes
EU (REACH)	Yes
EU (EINECS/ELINCS)	Yes
South Korea (KECL)	Yes

Registration Listings

Registry	Status
Philippines (PICCS)	Yes
Türkiye (KKDIK)	Yes
Taiwan (TCSI)	Yes
USA (TSCA)	Yes

Disclaimer

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