

#### **Product Information**

# Dynasylan® 6498

vinyl silane concentrate (oligomeric siloxane) containing vinyl and ethoxy groups.

#### **CAS NUMBER**

confidential

#### PRODUCT DESCRIPTION

Dynasylan® 6498 is a vinyl silane concentrate (oligomeric siloxane) containing vinyl and ethoxy groups.

Dynasylan® 6498 is a colourless, nearly odorless low-viscosity liquid.

Dynasylan® 6498 is an excellent compatibiliser between inorganic fillers (e.g. kaolin, MDH, ATH) and organic polymers (e.g. EPDM, EVA, PE).

The high boiling point of Dynasylan® 6498, together with its high flash point, gives it outstanding advantages with respect to safety and handling during processing. From an environmental viewpoint it should be noted that the amount of released hydrolysis ethanol (VOC) is significantly reduced compared to monomeric vinyl silanes.

Property	Unit	Value
Density	g/cm³	~1
(20 °C) DIN 51757		
/iscosity	mPa·s	3-7
20 °C) DIN 53015		

### **TYPICAL APPLICATIONS**

Dynasylan® 6498 is excellent as an adhesion promoter, dispersion and hydrophobation agent in mineral filled compounds. In the presence of moisture, the ethoxy groups of Dynasylan® 6498 hydrolyse to produce ethanol and reactive silanol groups. These silanol groups react with the filler via silicon-oxygen bridges. The vinyl functional groups of Dynasylan® 6498 react with the polymer phase in the presence of radicals: A major field of application for miner-

al-filled compounds is the cable industry. EPDM and EVA can be processed into highly filled cable compounds through the adhesion promoting and hydrophobising effect of Dynasylan® 6498.

#### **BENEFITS & ADVANTAGES**

The EPDM and EVA polymers with Dynasylan® 6498 are for the halogen-free, non-toxic, environmentally-friendly flame retardant cable compounds (HFFR) based on ATH and MDH.

In addition, Dynasylan® 6498 can be used in many other applications such as filler and pigment coating, dispersions etc.

Typical property improvements obtained by using Dynasylan® 6498 in filled polymers are:

- improved filler dispersion
- good processability
- significantly reduced water-uptake excellent balance between tensile strength and elongation at break at a high level
- improved chemical resistance
- strongly reduced tendency to stress cracking
- · higher impact strength
- higher abrasion resistance

#### 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® 6498 is supplied in 25 kg containers, 200 kg drums and 1.000 kg bulk containers.



## **STORAGE**

The containers must remain tightly sealed and stored in a cool, well-ventilated place protected against moisture.

#### **SHELF LIFE**

In the unopened container the shelf life of Dynasylan® 6498 is min. 12 months from delivery.

Docistor	Status
Registry	Status
Australia (AIIC)	No
Canada (DSL)	Information on Request
China (IECSC)	Yes
EU (REACH)	Exempted
European Union (EINECS/ELINCS)	Yes
Japan (ENCS)	Yes
South Korea (KECL)	Yes
Taiwan (TCSI)	Yes
United States of America (TSCA)	Yes

#### Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

# Evonik Operations GmbH

Smart Effects
Rodenbacher Chaussee 4
63457 Hanau
Germany
ask-se@evonik.com
ask-se-asia@evonik.com
www.evonik.com/smarteffects

