

KANEKA SILYL[®] SAX580 | Technical Data Sheet

Silyl-Terminated Polyether

Description

KANEKA SILYL[®] SAX580 is a Silyl-Terminated Polyether (STPE) used as a base resin for producing high performance moisture cure sealants, adhesives, and coatings. SILYL SAX580[™] has performed successfully in various industrial applications and provides well-balanced properties such as durability, reactivity, and storage stability. This unique and highly valued balance of attributes is derived from the polyether polymer backbone coupled with the trimethoxysilane functional groups.

Features

A high modulus polymer with:

- a) Fast cure with high strength
- b) Good mechanical properties
- c) Wide formulating latitude

A formulated product based on SILYL SAX580[™] will result in:

- a) Fast cure with high strength/modulus
- b) Broad adhesion profile
- c) Lower quantity of catalyst

Manufactured in Japan and Belgium

Typical Properties

Appearance	Light yellow liquid
Hue (Gardner Color Number)	G3 or less
Viscosity	19,500 – 30,000 cP
Moisture	0.1 wt% or less / 1,000ppm or less
pH	6.0 to 8.0

Regulatory Information

USA	TSCA	Complies
Japan	KASHINHO/ENCS	Complies
Europe	EINECS, ELINCS	Polymer Exempt
Canada	DSL	Complies

Other environmental, health, and safety information is contained in a separate safety data sheet.

SILYL SAX580™ Starting Point Formula

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KANEKA SILYL® SAX580	100
Plasticizer	55
Calcium Carbonate	120
Titanium Dioxide	20
Thixotrope	2
UV Absorber	1
HALS	1
Dehydration Agent	2
Adhesion Promoter	3
Hardening Catalyst	0.2

Formulated Properties of Representative Sample

- Skin Formation Time (min): 18
- Modulus 100 (psi/MPa): 131 / 0.90
- Hardness (Shore A): 32
- Tensile Strength (psi/MPa): 219 / 1.51
- Elongation (%): 340
- Compound Viscosity, HA (cP): 1,224,000
Brookfield Viscometer (No. 7 rotor, 2 rpm)

Applications

- Fast cure high strength Sealant/Adhesive
- Industrial Sealant/Adhesive
- DIY Adhesive/Sealant

Processing and Mixing

SILYL SAX580™ can be formulated into adhesives, sealants, and/or coatings utilizing either a hot or cold process. Please contact a Kaneka Representative for more information.

Packaging

- Tote: 2,205 lbs/1,000 kg

Storage

- Guarantee of six-month shelf life from delivery if stored appropriately.
- Containers must be stored below 50°C/122°F, stored inside, and remain tightly sealed.

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