

HYLOSIL 310

High temperature acetoxy curing RTV silicone sealant

Description

Hylosil Silicone Sealant 310 is a Room Temperature Vulcanising (RTV) silicone sealant which has been specifically developed for high temperature applications. Once applied the compound reacts with atmospheric moisture to form a tough and durable rubber seal. It has excellent adhesion to metals, glass, ceramics and plastics. The compound has large gap filling properties which makes it ideal for application to non-machined surfaces and even as cast surfaces.

Hylosil RTV Silicone Sealant 310 is resistant to oil, water and lubricants and will remain flexible to withstand vibration

Typical Properties, Uncured Product

Colour	Brick Red
Consistency	Non-slump paste
Cross Linking System	Acetoxy
Specific Gravity (DIN 53479)	1.28
Solids Content	100%
Extrusion Rate 3mm orifice @ 60 psi (BS 3712: Part 1)	78 g/minute
Skin Forming Time at 23°C (73.4°F) /50% RH (BS 5889)	15 minutes
Cure Rate @ 25°C(77°F) and 60% RH	3mm per 24 hours

Cured Product

Tensile Strength DIN 53505, S3A	1.4 N/mm ²
Elongation @ Break DIN 53504, S3A	420%
E Modulus @ 100% Elongation DIN 53504, S3A	0.6 N/mm ²
Hardness Shore A DIN 53505	43 ⁰
Tear Strength ASTM D 624, Form B	7 N/mm ²
Shrinkage DIN 53504, S3A	3%
Typical temperature Range	-50°C to 300°C(-58 ⁰ to 572 ⁰ F)
Ignition Temperature DIN 51794	460°C (860 ⁰ F)

Instructions for use

Surfaces should be clean, dry and free from contamination such as oil or grease. Once applied in Gasket applications, the joint should be assembled without delay.

Information given in this publication is based upon technical data gained in our own and other Laboratories and is believed to be true. However the material is used in conditions beyond our control thus we can assume no liability for results obtained or damages incurred through the application of the data present herein.

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Care should be taken when applying the compound to ensure any excess product will not foul any internal channels and cause blockages. Any excess uncured product extruded externally can be wiped away with a damp cloth.

When stripping assemblies sealed with Hylomar Silicone Sealant 310, carefully scrape away as much as of the cured product as possible. The remaining compound can be softened and removed using Silicone Sealant Remover.

Typical Applications

Hylomar Silicone Sealant 310 is a general purpose adhesive sealant with many applications in building, engineering and the automotive industry. It has excellent adhesion without primer to metals, glass, ceramics and most rigid plastics. The cured compound is resistant to weathering, aging and to many solvents, oil, water and lubricants. Its excellent thermal stability means it can be used for sealing and bonding at temperatures up to 300°C (572°F) and for gasketing up to 350°C (662°F) depending on the application. It is ideal for use as a flexible gasket or flange sealant in automotive and general engineering applications.

Handling and Safety Properties

Please see product safety data sheet.

Packaging

Hylomar Silicone Sealant 310 is available in 85g (3oz) tubes, 300ml (10.14fl.oz) cartridges and 17 litre (574.84fl.oz) pails.

Storage

Product should be stored between 5°C to 25°C (41°F to 77°F).

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