

HYLOSIL 106

Amine curing RTV silicone sealant

Description

Hylosil 106 is a non-corrosive, low odour (when compared with Acetoxy based sealants), Room Temperature Vulcanising (RTV) silicone compound. The product is a high performance engineering grade which is used in the automotive industry and for general manufacturing. It can also be used for a variety of other applications and is particularly suitable for high strength applications.

Hylosil 106 has a high viscosity, which gives an immediate low pressure seal when the joint is assembled. It has good resistance to oils and aqueous anti-freeze agents. Unlike general-purpose silicone sealants, Hylosil 106 contains no solvents and does not give off acetic acid during cure.

Typical Properties, Uncured Product

Colour	Ivory
Consistency	Non- Slump Paste
Cross Linking System	Amine
Specific Gravity (g/ml) DIN 53479	1.17
Extrusion Rate 3mm orifice @ 60 psi	18 g/min
Skin Time (Minutes) @ 55% RH	10
Cure Rate @ 25°C and 60% RH	3mm per 24 hours

Cured Product

Tensile Strength (N/mm²) DIN 53505, S3A.	1.8
Elongation at Break (%) DIN 53504, S3A	200
Modulus at 100% Elongation DIN 53504, S3A.	0.6 N/mm ²
Hardness (Shore A) DIN 53505	25
Tear Strength (N/mm²) ASTM D624 Form B	7
Typical temperature Range	-50°C to 180°C unaltered. Usable to 240°C

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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Dielectric Properties

Volume Resistivity Ohm.cm DIN 53482 determined dry at 23°C determined wet at 60°C	5 (x10 ¹⁴) 9 (x10 ¹³)
Dielectric Strength (kv/mm) DIN 53481	17
Tracking Resistance DIN 53480	KA 3 c
Dielectric Constant (epilson) at room temperature in a frequency range of 50Hz to 5MHz DIN 53483	3.0 - 2.9
Dissipation Factor (tan) at room temperature in a frequency range of 50Hz to 5Mhz (DIN 53483)	0.01 - 0.005

Instructions for use

Ensure both surfaces to be bonded are dry and free from contamination such as oil or grease. Apply a bead directly onto one surface. Once applied, the joint should be assembled without delay.

Care should be taken to ensure any excess compound does not extrude internally and foul any internal oil-ways or other channels and cause blockages. Any excess external product can be wiped away with a damp cloth.

Typical Applications

Due to its good resistance to oils, Hylosil 106 is ideal for use as a flexible gasket or flange sealant, for use in automotive and general engineering applications. Due to its non-sag properties the product is ideal for application to vertical surfaces.

Handling and Safety Properties

Xi Irritant – Risk Phrases = R36, R38. Safety Phrases = S26, S28, S36/37, S39.

Hylosil 106 is available in 100ml tubes, 300ml cartridges and 17 litre kegs.

The shelf life of Hylosil 106 is:

- 12 months in tubes.
- 18 months in cartridges
- 6 months in standard 17 L kegs
- 12 months in US export kegs.

To achieve the above shelf lives the product must be stored in the original unopened containers between 5°C to 25°C in dry conditions out of direct sunlight.

Packaging

Hylosil 106 is available in 300ml cartridges and 17 litre kegs.

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