Product Data Sheet

ISO-FILL A2 (g)

Description:

ISO-FILL A2 (g) is a non toxic 2-component sealing compound. Resin and hardener are based on hydrocarbon-resins.

The compound is designed for the use in underground cable boxes.

ISO-FILL A2 (g) cures chemically to an elastomer and has good adhesion to metal, ceramics as well as many plastics. Additionally, the material shows good heat conductivity and won't get brittle. For maintenance purposes, the cured resin can be removed with a knife. The material is absorbing strong vibrations making it ideally suitable for protecting electronics exposed to this kind of mechanical stress.

Technical Data:

resin	viscosity / 20°C	app. 10000 mPa s
	colour	blue*
	density / 20°C	1.5 g/cm³
hardener	viscosity / 20°C	app. 1000 - 2000 mPa s
	colour	yellow
	density / 20°C	1.15 g/cm³
mixture	mixing ratio resin : hardener	11 : 1 pbw*
	viscosity / 20°C	app. 7000 mPa s
	colour	light green*
	density / 20°C	1.5 g/cm³
	potlife / 20°C	Standard: App.15 min *
	geltime / 20°C	Standard: App. 20 min *
	max. temperature (200 g, start at 20°C)	40°C

* or on request

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Continuation Technical Data ISO-FILL A2 (g):

Properties of cured product (typical values):

mixing ratio resin : hardener	11 : 1 pbw
hardness	50 - 55 Shore A / 10 Shore D
temperature resistance	long-time: 120°C short-time: 140°C
tensile strength	5 N/mm^2
elongation at break	150 %
dielectric strength	> 15 kV/mm
dielectric strength while still liquid	5 kV/mm
dissipation factor tan δ / 25°C / 50Hz	< 0.01
dielectric constant ε / 25°C / 50Hz	ca. 3
thermal conductivity	0,5 W/K m
thermal volume expansion coefficient	$230 * 10^{-6} K^{-1}$
tracing resistance	KA 3c
water absorption after 30 days / 23°C	0.5 %
chemical resistance against mineral oil, 2n H_2SO_4, $CaCO_3$-solution	no visible degradation

Storage:
Store dry and well closed.

Processing:
Stir up resin component well. Then mix resin and hardener carefully in recommended ratio for 1 - 3 minutes (depending on size of mixture and potlife). The mixture has to be poured into the mould immediately after mixing. Air bubbles that have been stirred in the mixture can be removed before end of potlife by evacuating or by blowing hot air over the surface causing the bubbles to collapse.

Please see material safety data sheet for additional information.