Product Data Sheet

ISO-CAST A 776

Description:

ISO-CAST A 776 is a cold-curing 2-component casting resin based on light-stable polymers (hybrid system). The cast resin shows a low pouring viscosity. The material is used as self-healing gel for electro-insulation. ISO-CAST A 776 has a good adhesion to metals and many plastics. The hydrophobic resistance is excellent. The system contains no volatile inert diluents

Technical Data:

resin	viscosity / 20°C colour density / 20°C	app. 6000 mPa s colourless* 1.0 g/cm³
hardener	viscosity / 20°C colour density / 20°C	app. 6000 mPa s colourless 1.0 g/cm³
mixture	mixing ratio resin : hardener viscosity / 20°C colour density / 20°C potlife / 20°C	 1 : 1 pbw app. 6000 mPa s colourless* 1.0 g/cm³ app. 120 min

* or on request

ISO-ELEKTRA GmbH
Im Mühlenfeld 5
31008 Elze

Telefon: (05068) 925-0
Telefax: (05068) 925-25

e-mail: INFO@ISO-ELEKTRA.de
Internet: www.ISO-ELEKTRA.de

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Properties of cured product (typical values):

mixing ratio resin : hardener	1 : 1 pbw
penetration	app. 300 mm/10
temperature resistance	long-time: 150°C
dielectric strength	> 22 kV/mm
dissipation factor tan δ / 25°C / 50 Hz	0.006
dielectric constant ε / 25°C / 50 Hz	2.8
thermal conductivity	0.2 W/K m
thermal volume expansion coefficient	$3 \times 10^{-4} K^{-1}$
tracing resistance	KA 3c
weather resistance	good UV resistance, after long period colour-change possible
chemical resistance against mineral oil, 2n H_2SO_4, $CaCO_3$-solution	no visible degradation

Storage:
Store dry and well closed.

Processing:
Resin and hardener should be evacuated before mixing. Then mix resin and hardener carefully in recommended ratio for 2 minutes. 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.