Distribution of components and chemical products

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Product Data Sheet

ISO-PUR F 754

Description:

ISO-PUR F 754 is a filled cold-curing 2-component polyurethane cast resin based on polyether- and -esterpolyols, epoxy resins and precured aromatic diisocyanates. ISO-PUR F 754 can be used up to a power of 10 kV (e. g. in cable-joints, transformers).

ISO-PUR F 754 shows very high viscosity while pouring. The cured product has a good adhesion to metals and many plastics. The hydrophobic and temperature resistance is excellent.

Technical Data:

resin	viscosity / 20°C colour density / 20°C	app. 34000 mPa s black* 1.7 g/cm³
hardener	viscosity / 20°C colour density / 20°C	app. 120 mPa s brown 1.2 g/cm³
mixture	mixing ratio resin : hardener viscosity / 20°C colour density / 20°C potlife / 22°C geltime / 22°C max. temperature (200g, start at 20°C)	 9 : 1 pbw app. 24000 mPa s black* 1.7 g/cm³ - 20 min * (incl. time for stirring, 200 g in 200ml-PE- or paper-cup) app. 50°C *

*

or on request

Continuation Technical Data ISO-PUR K 754
Properties of cured product (typical values):

mixing ratio resin : hardener	9 : 1 pbw
hardness	15 - 20 Shore D
temperature resistance	long-time: -40 - 140°C short-time: -40 - 180°C
tensile strength	5 N/mm^2
elongation at break	80 %
dielectric strength	> 30 kV/mm
dielectric strength while still liquid	> 8 kV/mm
dissipation factor tan δ / 25°C / 50Hz	0.03
dielectric constant ε / 25°C / 50Hz	3.6
thermal conductivity	1.0 W/K m
thermal volume expansion coefficient	250 * 10^{-6} K^{-1}
tracing resistance	KA 3 c
water absorption after 30 days / 23°C	0.2 %
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 compound 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 can be removed before end of potlife by evacuating or by using hot air.

Please see material safety data sheet for additional information.