

Product Data Sheet

ISO-CAST A 765 MI

Description:

ISO-CAST A 765 MI is a minerally filled cold-curing 2-component polyurethane cast resin. The resin and hardener are based upon hydrocarbon-resins. ISO-CAST A 765 MI is not classified according to German and EC regulations.

.The cast resin was developed for casting electronic parts.

Cured samples of ISO-CAST A 765 MI do not become brittle. The system has a good thermal conductivity and minimum shrinkage while curing. ISO-CAST A 765 MI protects against corrosion and shows good adhesion to metal, ceramics and many plastics. The hydrolytic resistance is excellent. ISO-CAST A 765 MI contains a flame retardant . The cured product fulfils flammability rating UL 94V-0.

Technical Data:

resin	viscosity / 20°C	app. 70000 mPa s
	colour	black*
	density / 20°C	1.6 g / cm ³
hardener	viscosity / 20°C	1000 - 2000 mPa s
	colour	clear
	density / 20°C	1.1 g / cm ³
mixture	mixing ratio resin : hardener	5.8 : 1 pbw (4 : 1 pbv)
	colour	black*
	density / 20°C	1.55 g / cm ³
	potlife / 20°C	app. 15 min *
	geltime / 20°C	app. 20 min *

* or on request

Continuation Technical Data ISO-CAST A 765 MI

Properties of cured product (typical values):

mixing ratio resin : hardener	5.8 : 1 pbw
hardness	70 Shore A
temperature resistance	long-time: 120°C short-time: 180°C
elongation at break	150%
dielectric strength	> 15 kV/mm
dielectric strength while still liquid	5 kV/mm
dissipation factor $\tan \delta$ / 25°C / 50Hz	< 0.01
dielectric constant ϵ / 25°C / 50Hz	app. 3
thermal conductivity	0.6 W/K m
tracing resistance	KA 3 c
water absorption after 30 days / 23°C	0.5 %
chemical resistance against mineral oil, 2n H ₂ SO 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.