

Product Data Sheet

ISO-PUR K 762

Description:

ISO-PUR K 762 is a mineral filled cold-curing 2-component polyurethane cast resin based on polyether- and -esterpolyols and precured aromatic diisocyanates. The technical data of ISO-PUR K 762 are similar to those of ISO-PUR K 760, which is a standard material for casting electronic parts but with lower viscosity.

Cured samples of ISO-PUR K 762 do not become brittle. The system has a good thermal conductivity and minimum shrinkage while curing. ISO-PUR K 762 protects against corrosion and shows good adhesion to metal, ceramics and many plastics.

Technical Data:

resin	viscosity / 20°C	app. 2100 mPa s
	colour	pale brown*
	density / 20°C	1.3 g/cm ³
hardener	viscosity / 20°C	app. 120 mPa s
	colour	brown
	density / 20°C	1.2 g/cm ³
mixture	mixing ratio resin : hardener	3 : 1 pbw *
	viscosity / 20°C	app. 1300 mPa s
	colour	pale brown*
	density / 20°C	1.2 g/cm ³
	potlife / 20°C	Standard: App. 30 min *
	gelttime / 20°C	Standard: App. 40 min *
	max. temperature (200g, start at 20°C)	app. 50°C *

* or on request

Continuation Technical Data ISO-PUR K 762

Properties of cured product (typical values):

mixing ratio resin : hardener	3 : 1 pbw
hardness	60-65 Shore D
temperature resistance	long-time: 140°C short-time: 200°C
tensile strength	22 N/mm ²
elongation at break	70 %
dielectric strength	20 kV/mm
dielectric strength while still liquid	7 kV/mm
dissipation factor tan δ / 25°C / 50Hz	0.02
dielectric constant ϵ / 25°C / 50Hz	4.2
thermal conductivity	0.45 W/K m
thermal expansion coefficient	50 x 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 ₂ SO 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.