

Product Data Sheet

ISO-PUR A 763

Description:

ISO-PUR A 763 is a minerally filled cold-curing 2-component polyurethane cast resin based on polyether- and -esterpolyols and precured aromatic diisocyanates. The cast resin fulfils the flammability rating UL94V-0 and therefore is suitable for casting electronic parts which have to be tested according to the UL-norm. A "Yellow Card" exists.

Cured samples of ISO-PUR A 763 do not become brittle. The system has a good thermal conductivity and minimum shrinkage while curing. ISO-PUR A 763 protects against corrosion and shows good adhesion to metal, ceramics and many plastics. The hydrolytic resistance is excellent.

Technical Data:

resin	viscosity / 20°C colour density / 20°C	app. 5500 mPa s white* 1.4 g/cm ³
hardener	viscosity / 20°C colour density / 20°C	app. 120 mPa s brown 1.2 g/cm ³
mixture	mixing ratio resin : hardener viscosity / 20°C colour density / 20°C potlife / 20°C geltime / 20°C max. temperature (200g, start at 20°C)	 4 : 1 pbw* app. 3000 mPa s white* 1.4 g/cm ³ app. 20 min * app. 35 min * app. 50°C *

* or on request

Continuation Technical Data ISO-PUR A 763 Properties of cured product (typical values):

mixing ratio resin : hardener	4 : 1 pbw
hardness	99 Shore A / 65-70 Shore D
temperature resistance	long-time: 140°C short- time: 210°C
tensile strength	25 N/mm ²
elongation at break	60 %
dielectric strength	> 30 kV/mm
dielectric strength while still liquid	> 8 kV/mm
dissipation factor tan δ / 25°C / 50Hz	0.02
dielectric constant ϵ / 25°C / 50Hz	4.3
thermal conductivity	0.6 W/K m
thermal volume expansion coefficient	50 * 10 ⁻⁶ K ⁻¹
tracing resistance	KA 3 c
water absorption after 30 days / 23°C	0.3 %
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.