

Product Data Sheet

ISO-PUR K 781

Description:

ISO-PUR K 781 is a minerally filled cold-curing 2-component polyurethane cast resin based on polyether- and -esterpolyols and precured aromatic diisocyanates.

Cured samples of ISO-PUR K 781 are tough but not brittle. The product was especially developed for applications where high hardness and temperature resistance are necessary. The hydrolytic resistance is excellent.

Technical Data:

resin	viscosity / 20°C colour density / 20°C	app. 4000 mPa s pale brown* 1.5 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)	 2 : 1 pbw app. 2500 mPa s pale brown* 1.4 g/cm ³ app. 10 min * app. 11 min * app. 90°C *

*
or on request

Continuation Technical Data ISO-PUR K 781

Properties of cured product (typical values):

mixing ratio resin : hardener	2 : 1 pbw
hardness	100 Shore A / 85 Shore D
temperature resistance	long-time: 140°C short- time: 200°C
tensile strength	75 N/mm ²
elongation at break	5 %
dielectric strength	> 22 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	4.1
thermal conductivity	0.45 W/K m
thermal volume expansion coefficient	50 * 10 ⁻⁶ K ⁻¹
tracing resistance	KA 3c
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 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.