

Product Data Sheet

ISO-POX HC 30000

Description:

ISO-POX HC 30000 is a hot-curing, mineral filled, solvent free cast resin for sealing electronic parts. The sealing compound has a good long-term heat resistance, good mechanical and flame retardent-properties. The surface is tack free and scratch-resistant. The product protects against corrosion and shows good adhesion to metal, ceramics and many plastics.

Technical Data:

ISO-POX HC 30000 resin mineral filled, modified, solvent free epoxy resin	viscosity / 20 °C colour density flash point	app. 100000 mPa s red brown 1,8 g / cm ³ > 140 °C
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ISO-POX HC 30000 hardener: low-viscosity, colourless cycloaliphatic polyamine- hardener	viscosity / 20 °C colour density flash point	app. 70 mPa s colourless 0,95 g / cm ³ 175 °C
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Mixture	Ratio resin to hardener: viscosity / 20 °C colour density pot life @ 50 °C minimum curing time at 60 °C max. temperature (200g, start at 20°C)	100 : 11 pbw app. 7000 mPa s red brown 1,7 g / cm ³ App. 45 min 3 h app. 100 °C
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Continuation Technical Data ISO-POX HC 30000

Properties of cured product (typical values):

mixing ratio resin : hardener	100: 11 pbw	
Colour of mould	red brown	
Density (28 °C)	1,7 g / cm ³	ISO 1183
Hardness (Shore D)	90	DIN 53505
temperature index IEC216 (20.000 h)	long-time: 139°C	
Flammability	V0	UL 94
glass transition temperature	75 °C	
bending strength (23 °C)	80 MPa	ISO 178
bending	1 %	ISO 178
Impact resistance (23 °C)	8 kJ/m ²	ISO1 79
Coefficient of linear thermal expansion	5 x 10 ⁻⁵ K ⁻¹	ISO 11359-2
dielectric strength	20 kV/mm	DIN 53481
dissipation factor tan δ / 25°C / 50Hz	0.008	DIN 53483
dielectric constant ϵ / 25°C / 50Hz	4.2	DIN 53483
thermal conductivity	0.6 W/K m	ISO 8894
tracing resistance	CTI > 600 KA > 600	IEC 60112 DIN 53480
water absorption after 1 days / 23°C	0.1 %	ISO 62
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. If resin is partly crystallised, heat up (50°C) until a homogenous and fully liquid state is obtained. 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 by evacuating or by blowing hot air over the surface causing the bubbles to collapse.

Please see material safety data sheet for additional information.