

## TECHNICAL DATASHEET

### ergo.<sup>®</sup> 7360

(ergo.<sup>®</sup> 7358 resin + ergo.<sup>®</sup> 7359 hardener and ergo.<sup>®</sup> 7357 filler)

#### Description

Easy flowing 3-component epoxy resin for potting applications (e.g. connectors or sensors).  
Passes UL94 V-0 in thicknesses > 5mm.

#### Advantages

- Low odour
- Slow curing
- Easy flowing; self-leveling
- Solvent free

#### Physical properties (liquid product)

Chemical base	filled epoxy resin
Curing system	3K System
Mixing ratio	100 : 171 : 22
	(resin : hardener : filler by weight)

Viscosity according to DIN EN ISO 3219  
(Cone/plate-system; cone C-50, shear rate  $D=100\text{ s}^{-1}$ ; 25°C)

Filler	ergo. <sup>®</sup> 7357	n.a. (solid powder)
Resin	ergo. <sup>®</sup> 7358	450 – 700 mPa•s
Hardener	ergo. <sup>®</sup> 7359	~ 5 mPa•s
Mixture		2500 - 3000 mPa•s

Colour	Filler	ergo. <sup>®</sup> 7357	white
	Resin	ergo. <sup>®</sup> 7358	colorless
	Hardener	ergo. <sup>®</sup> 7359	colorless
	Mixture		off-white

Density @ 23°C	Filler	ergo. <sup>®</sup> 7357	2.4	g/cm <sup>3</sup>
	Resin	ergo. <sup>®</sup> 7358	1.0	g/cm <sup>3</sup>
	Hardener	ergo. <sup>®</sup> 7359	0.9	g/cm <sup>3</sup>

Pot life (100g mixture @ 25°C)	~60 Minutes
Gel time	~270 Minutes

Shelf life (in original sealed containers)	18 month at RT
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<b>Physical properties</b> (cured product after 2 days/23 °C or 16 hours/40 °C)	
Final strength	2 days at 23°C 16 hours at 40°C
Shore D hardness	~65
Density	~1.6 g/cm <sup>3</sup>
Glasstransitiontemperatur (T <sub>g</sub> )	~ 45 °C
Thermal range	- 40 °C to +100 °C
Decomposition temperature	> 200 °C
Thermal expansion coefficient (ISO11359)	~80 ppm•K <sup>-1</sup>
Thermal conductivity (ASTM E 1461)	~ 0,72 W/(m•K)
<b>Electrical properties</b>	
Breakdown voltage	43.0 [KV/mm]
Creep resistance CTI	> 600 [V]
Specific resistance (DIN IEC 60093)	> 1,5•10 <sup>12</sup> Ω•cm

## Instruction of use

First mix the resin ergo.® 7358 and the filler ergo.® 7357 until it is homogeneous. Then add the hardener ergo.® 7359 and mix again. (Consider the parts by weight correctly: 100 : 171 : 22). If the absence of air/bubbles in the potting resin is crucial, perform degassing under reduced pressure for 10 minutes (50 – 100 mbar).

The viscosity of the mixture will start to raise with the addition of the hardener – the earlier processed the less viscous is the mixture. For potting use within 30 minutes.

The information in this data sheet is based on the results of our research and experience. However, the suggestions herein concerning the use, application, and processing of the products (collectively, „the methods“) **are non-binding recommendations only**. It is the user's sole responsibility to determine the suitability and safety of these methods, based on the user's particular purpose in using the products. Before relying on the reliability and safety of any parts that are bonded using the products, it is extremely important that the user test the reliability and safety of the parts that are bonded. Failure to do so could result in serious personal injury. Because of the use of the products are within the purchaser's sole control, Kisling Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose, arising from the sale or use of the products described herein. Kisling Corporation specifically disclaims any liability for consequential, incidental, or other damages of any kind, including lost profits. Kisling Corporation's liability for damages shall not exceed the purchase price of the products used.

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