



distribuito da:
ANDREA GALLO DI LUIGI S.r.l.
[azienda fondata nel 1892](#)
Via Erzelli, 9 - 16152 Genova (Italy)
Tel. 010.650.29.41
www.andreagallo.it

Resina poliuretana Damival® 13650 0000 / Indurente 13500 0000

- ▶ Flexible elastomeric compound
- ▶ Very hydrophobic grade
- ▶ Good adhesion
- ▶ Suitable for very low temperature
- ▶ Low dielectric constant

General description

Two parts polyurethane casting resin.

Application

Casting resin for encapsulation of Printed Circuit Boards Assemblies, transformers, ...

Processing

The resin must be stirred before use, as it contains fillers which can settle during storage. A storage above 25°C will increase the settling. Avoid air introduction during stirring.

Polyurethane resin and hardener are sensitive to moisture during the processing steps (storage, mixing, casting). The parts to be casted should be dry and clean.

A preheating of the parts and/or of the resin and hardener can improve the encapsulation. A vacuum processing enhance the dielectrical and mechanical properties.
Mixing can be done by machine or manually.

The gel time and the curing time depend on the mixed volume, the temperature and the thickness of the layer.
Final properties are depending on the curing level.

Mixing ratio (resin/hardener):

Weight: 100 / 33

Volume: 100 / 26

Storage Conditions

Resin : 12 months in original packaging, at 15 to 25°C, protected from moisture.

Hardener: 12 months in original packaging, at 15 to 25°C, protected from moisture.

Packaging

Resin : 5, 20kg, 250 kg metallic drums,

Hardener : 5 kg, 25 kg, 250 kg metallic drums,

Other packaging upon request

Health and safety

- Avoid any contact with skin and eyes!
- Work in a well ventilated area, far from any flame!
- Wear safety gloves, goggles and work clothes.

Read the Material Safety Data Sheet for complete information.

	<u>Value (Resin)</u>	<u>Value (Hardener)</u>	<u>Value (After mixing)</u>	<u>Value (After curing)</u>	Test norm
Physical properties					
Colour	Black	Brown	Black		
Density at 25°C	0.95	1.21	1.01		
Viscosity at 25°C	mPa.s	5000 ± 1000	90 ± 20	4000	
Gel time at 20°C (1 000 g)	mn		100 ± 20		TECAM
Hardness Shore A				75	ISO 868
Thermal properties					
Range of use				- 70°C / + 130°C	
Glass transition temperature	°C			- 65	DMA
Thermal conductivity	W/m.K			0.20	
Coefficient of thermal expansion	ppm/K			76 (<-65°C); <u>150(>-65°C)</u>	TMA
Mechanical properties					
Elongation	%			150	ISO 527
Electrical properties					
Dielectric strength (50% R.H./ 23°C)	kV/mm			15	
Dielectric constant (50Hz/20°C)				2.8	
Dissipation factor (50 Hz/20°C)				0.01	



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