Technical Data Sheet
Casting resin epple 06855-new

Issue: 05-2025

Description:

epple 06855-new is a two-component, solvent-free cast resin on the basis of polyurethane.
The low-viscous material cures to a tough mould and provides very good adhesion to metals and various plastics.

Application:

epple 06855-new is particularly suitable for the protection of electronic components subject to continuous mechanical stresses. It is rather not suitable for components strained by vibration. Thanks to its very good adhesive strength on metal, **epple 06855-new** can be applied where grouting and bonding of two metal assembly components is to be achieved at the same time. Also applications in damp locations are possible because of the low water absorption.

Specific properties:

epple 06855-new can be used under high temperatures at coeval high humidity (e. g. 100 °C / 98 % rel. humidity) over a longer period of time without impairing the functionality of the product. Even changing strains, e. g. between 100 °C / 98 % rel. humidity and 20 °C / 30 % rel. humidity, are possible depending on the other surrounding conditions.

Legal regulations:

Accordant to RoHS (2011/65/EU and 2015/863): yes

Application / Surface:

- The surface has to be clean and free from dust and grease.
- Decant component B into the tin of component A. Mix the two components thoroughly and homogeneously. Eventually, fill over the mixture into another, clean container and stir the material again.

Cleaning of tools:

Thinner 11

Packaging:

Tins

Basis / Characteristics

Components		Solvent-		Chemical Basis	
1-comp.	**2-comp.**	**free**	containing	Epoxy	**Polyurethane**

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Properties of the liquid cast resin			
Property	**Component A**	**Component B**	**Following to standard**
Viscosity	5 - 15 Pas	0.1 – 0.2 Pas	DIN EN ISO 3219
Viscosity of mixture	2 - 5 Pas		DIN EN ISO 3219
Density	1.3 – 1.4 g/cm³ / 20 °C	1.2 – 1.24 g/cm³ / 20 °C	DIN 53479
Mixing rate	76 parts by weight 74 parts by volume	24 parts by weight 26 parts by volume	gravimetric volumetric
Colour of mixture	black		-
Loss on drying up to 140 °C	-		
Pot life	30 - 50 min		DIN VDE 0291-2
Storage	12 months in closed original containers, stored in a dry and cool but frost-free place. Ideal storage temperature: 5 – 30 °C. Stir-up before use.		

Diese Druckschrift soll Sie beraten. Die darin gemachten Angaben entsprechen unserem besten Wissen, jedoch kann eine Verbindlichkeit daraus nicht hergeleitet werden.

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Properties of the cured cast resin		
Property	**Value**	**Following to standard**
Hardness (after 7 days at 20 °C) Shore-A Shore-D Pendulum hardness / König	 - 70 - 80 85 – 115 s	 DIN 53505 DIN 53505 DIN 53157
Temperature resistance (after 7 days at 20 °C)	-25 °C to +150 °C	
Absorption of water 20 °C / 7 days 100 °C / 30 min	 0.2 – 0.4 % 0.1 – 0.3 %	ISO 62
Chemical resistance (after 7 days at 20 °C)	ATF-oil, engine oil water	epple-standard

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