EPMOLD MP100
Epoxy Modeling Paste

APPLICATIONS

EPMOLD MP100 is the epoxy modeling paste mixed in planetary mixer and lay-up in 10-40 mm on a rough form by hand, and could be cured at room temperature. To achieve high temperature resistance, it must be post cured at elevated temperature. EPMOLD MP100 has longer pot-life and lower exothermic. It is used for the making of large model, tooling mould and light checking fixtures.

FEATURES

- Longer pot-life and lower exothermic
- Mixing by hand or planetary mixer
- Light weight and easy milling
- Could be applied to 40mm thickness

PHYSICSL PROPERTY

	Test Standard	RESIN	HARDERNER
Mix ratio by weight		100	40
Aspect	visual	Paste	Paste
Color	visual	white	light grey
Specific gravity at 25℃ (g/cm^3)	ISO 1675 : 1985	Approx. 0.8	Approx. 0.52
Specific gravity of cured product at 25℃	ISO 2781 :1996	0.65-0.68 g/cm^3	
Pot-life at 25℃ （500g）		50-70 min	
Time to milling at 25 ℃		20-24 hours	
Peak exothermic temperature and time to reach peak temperature at 25℃ (500g)		83℃	
		86 min	

MECHANICAL PROPERTY

Property	Test standard	EPMOLD MP100
Hardness	ISO 868 : 2003	Shore D 63-67
Flexural strength	ISO 178	17-23 MPa
Compressive strength	ISO 604	30-35 MPa
Glass Transition Temperature	ISO 11357 (DSC)	>100 ℃
Coefficient of linear thermal expansion	ISO 11359-2	45±5*10^{-6} K^{-1}

(1) : Average values obtained on standard specimens / Hardening 4hrs at 40°C+ 2hrs at 80°C+ 4hrs at 100°C

PACKAGE

EPMOLD MP100 RESIN	EPMOLD MP100 HARDENER
10 kg x 2	4 kg x 2

STORAGE AND SHELF LIFE

Shelf life of both parts is 12 months in a dry place and in their original unopened containers at a temperature between 15 to 25°C.
Stored under low temperatures, it would be getting hard and not easy for mixing. It is recommended to warm it at 40-60 ℃ until it is getting soft enough for mixing. The warming process will not affect the property of the final product.
Any open can must be tightly closed right after use.

PRECAUTIONS

Normal health and safety precautions should be observed when handling these products :
. ensure good ventilation
. wear gloves and safety glasses
For further information, please consult the product safety data sheet.

HANDLING PRECAUSIONS

It should be processed at well-ventilated room; avoid to contact with skin during machining process; wear gloves, mask, safety glass and protective clothing.
For further information, please consult material safety data sheet.

NOTE:

The data above is tested at specific conditions. Processing procedure and conditions might vary in practical applications, therefore it is recommended to carry out tests where necessary before using the product, and to ensure the product could meet the actual requirement. We at EPTEK guarantee that our products meet our highest quality management regulations.