TECHNICAL BULLETIN

alpha ASSEMBLY SOLUTIONS

HI-POXY 9100(Rev1.5-1)

PRODUCT DESCRIPTION

HI-POXY 9100(Rev1.5-1) product provides following features:

Chemical Type	Epoxy
Appearance	Black
Key Features	One component Halogen-Free Excellent workability Excellent adhesion
Curing Method	Heat cure
Typical Applications	Coating

HI-POXY 9100(Rev1.5-1) is one component epoxy designed to improve attachment strength of solder joints. It prevents chip, IC devices from dropping out by mechanical stress.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity (Brookfield Cone & Plate, 52 spindle, 20rpm, @ 25℃, cps)	1,000 ~ 3,000
Specific Gravity	1.1-1.2
Pot Life @25℃, days	7
Shelf Life @-20℃, months	6

RECOMMENDED CURE CONDITION

≥ 20 minutes @70℃ (Convection oven)

Optimal cure conditions will depend on curing equipment. Cure conditions may be dissimilar based on customers working process and application requirements.
Use recommended cure condition as general guideline. Other cure conditions may yield satisfactory results.

PHYSICAL PROPERTIES OF CURED MATERIAL

Hardness (Shore D)	25-35
Glass Transition Temperature (Tg), TMA	23(±5)
Coefficient of Thermal Expansion, TMA	
α_1, < Tg, ppm	48 (±15)
α_2, > Tg, ppm	220 (±25)
Moisture Absorption, wt% 24hours @ water/25℃	≤1.0

STORAGE

Optimal storage: **-20 ~ -40℃**
Store in unopened container, freezer at below -20℃.
Storage greater than 10℃ can adversely affect product properties.
Pot life of material is valid when stored at suggested storage condition. Inappropriate storage may degrade the performance of the product during dispensing and final cured properties.
Transfer product from dry ice to freezer with **NO** delays.
DO NOT open the cap before the product is sufficiently thawed.
Material must be thawed on room temperature for **2hours.**
DO NOT re-freeze. Product should not be re-frozen, once thawed from room temperature.
DO NOT return product to original container.

PACKING

HI-POXY 9100(Rev1.5-1) product can be filled in various specified syringes or container due to customer's demand.

GENERAL INFORMATION

Always read Material Safety Data Sheet (MSDS) for safe handling product.
Technical information contained herein is intended as reference only. If additional information is required, please contact your local Sales or Technical Service Center.