

TECHNICAL INFORMATION

IK0010

April. 2018 1/2

IK0010(A)/IK0010(B)

1. Typical properties

IK0010 is an epoxy encapsulant which was developed for indoor/ semi-outdoor full-color SMD. IK0010 has good resistivity against Heat and UV in spite of epoxy. It is Halogen free & Rohs compliant.

2. Specification of product

Test item	Unit	IK0010(A)	IK0010(B)
Main ingredient		Cycloaliphatic Epoxy	Acid anhydride
Color		Light yellow	Clear ~ light yellow
Viscosity(25°C)	mPa·s	3,000±1,000	2500±1,000
S.G@(25°C)		1.16	1.17
Gel time(121°C)	Min.	5-10	
Shelf life from date of MFG	Month	12	12

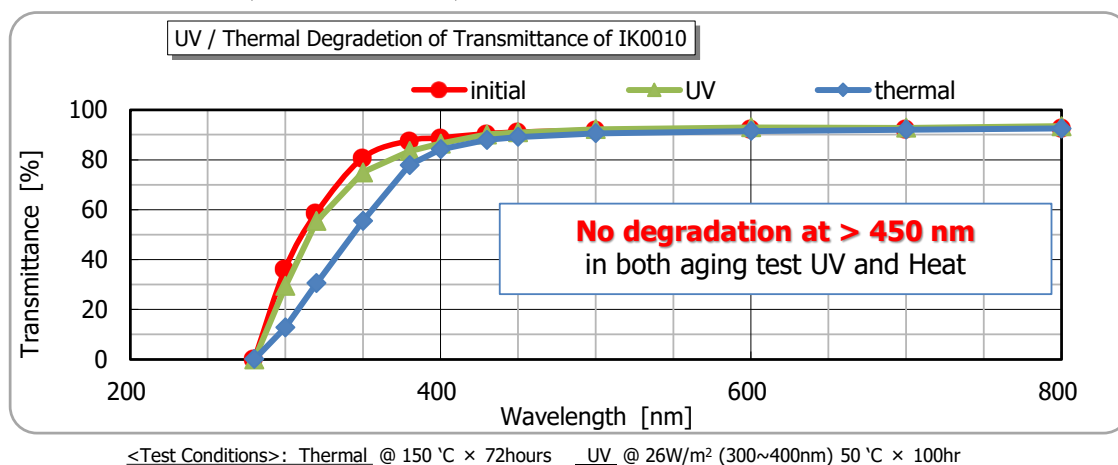
2. Typical cured properties

Values are not intended for use in the preparation of specifications. All measurements taken at 25C unless otherwise noted.

Test item	Unit	IK0010(A)	IK0010(B)
Mixing ratio	A/B	100/90	
Mixed viscosity	mPa·s	2500±500	
Pot life	Hrs	8	
Curing condition		Standard 135°C/1hr + 150°C/4hrs	High reliability 150°C/1hr + 160°C/5hrs
Tg (TMA)	°C	158.1	181.5
CTE1	ppm/C	61,5	60.7
CTE2	ppm/C	175	144
Flexural Modulus	GPa	3.39	3.29
Flexural strength	MPa	117	129
Refractive index		1.49	1.49
Hardness	Shore D	89	89

3. Cured Optical properties

Initial transmittance (thickness=2mm)



4. Package & Storage condition

IK0010(A) 4kg / 4L HDPE

IK0010(B) 4kg / 4L HDPE

Part A & B storage condition is Room Temperature.(0~35 deg.C)

5. Safety

Part A may cause injury to skin following prolonged or repeated contact.

Prevent prolonged or frequent contact. if contact occurs, wash at first opportunity with soap and water.

Part B may cause skin sensitization or other allergic responses.

Avoid inhalation of vapor. Use good ventricularly if heated or sprayed. Prevent all skin contact. if contact occurs, immediately with soap and water.

IMPORTANT; The information in this brochure is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.