



SANHO CHEMICAL CO., LTD.

NO. 1, ZHONGSHAN S. RD., LUZHU DIST., KAOHSIUNG CITY, TAIWAN.
 TEL : 886-7-6962211~3 http : // www.sanho.com.tw
 FAX : 886-7-6976993 (Sales) E-mail : sanho@sanho.com.tw
 FAX : 886-7-6961782 (Export) E-mail : sanho@so-net.net.tw

4. MECHANICAL PROPERTIES

Epoxy resin : bisphenol-A type liquid epoxy resin whose epoxy equivalent weight is about 190. Precured at 23°C for 7day

Epoxy resin / KINGCURE I-631	100 / 45	100 / 55	100 / 65
Tensile Strength (kgf/mm ²)	5.8	6.1	6.4
Bending Strength (kgf/mm ²)	8.2	9.0	8.3
Flexural Modulus (kgf/mm ²)	3.0×10 ²	3.3×10 ²	3.1×10 ²
Compressive strength (kgf/mm ²)	8.1	8.0	7.6
Izod Impact Strength (kgf/cm-cm)	1.7	2.0	1.8
Rockwell Hardness (m-scale)	69	74	67
Shore D. D-scale	81	82	81
Heat Distortion Temp (°C)	43	47	46

5. CHEMICAL RESISTANCE

Epoxy resin : bisphenol-A type liquid epoxy resin whose epoxy equivalent weight is about 190. Precured at 23°C for 7 days

Measured the weight change of the cured products after immersing them into following chemical substrates

Unit : %

Epoxy Resin / K I-631	100 / 45			100 / 55			100 / 65		
	1	7	30	1	7	30	1	7	30
Immersing time (days)									
Tap water (23°C)	0.2	0.7	1.4	0.2	0.7	1.5	0.3	0.8	1.7
5% salt water solution	0.2	0.7	1.3	0.2	0.7	1.4	0.3	0.8	2.6
10% caustic soda solution	0.2	0.6	1.1	0.2	0.5	1.2	0.3	0.6	1.3
10% ammonia solution	0.3	0.8	1.7	0.3	0.9	2.0	0.4	1.1	2.3
5% sulfuric acid solution	0.3	0.8	1.6	0.4	1.1	2.2	0.7	1.8	3.7
5% hydrochloric acid solution	0.2	0.7	1.4	0.3	0.8	1.6	0.4	1.0	2.1
Kerosene	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1
Isopropanol	0.0	0.2	0.1	0.0	0.1	0.7	0.0	0.1	0.7
Methyl isobutyl ketone	2.0	9.1	broken	0.7	2.8	6.4	0.4	2.0	4.6