



SANHO CHEMICAL CO., LTD.

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4. PHYSICAL PROPERTIES

The mechanical properties of the cured products of the KINGMIDE 2100 and the same epoxy resin as employed above were measured as follow :

Epoxy resin / KINGMIDE 2100	100 / 50	100 / 60	100 / 70
Tensile Strength (kgf/mm ²)	1.1	1.1	1.3
Flexural Strength (kgf/mm ²)	2.4	2.3	3.5
Flexural Modulus (kgf/mm ²)	3.0×10 ²	2.8×10 ²	2.9×10 ²
Compressive Strength (kgf/mm ²)	6.5	5.8	5.2
Izod Impact Strength (kgf/cm-cm)	1.0	0.9	0.9
Rockwell Hardness (M-scale)	40	30	37
Heat Distortion Temp. (°C)	49.5	50	50.5

5. LAP SHEAR STRENGTH

Epoxy resin : Employed Bisphenol-A type epoxy resin whose EEW is 190.

Curing Temperature : 23°C for 7 days

Epoxy resin / KINGMIDE X-2100	100 / 50	100 / 60	100 / 70
Lap shear strength (kgf/cm ²)	117	125	131

6. CHEMICAL RESISTANCE

Percentage increase in weight of the cured products of KINGMIDE X-2100 and the same epoxy resin as employed above were measured as follow: Sample being cured at 23°C for 7 days, and immersing into respective chemical substances.

Unit : %

Epoxy resin / KINGMIDE X-2100	100 / 50			100 / 60			100 / 70		
	1	7	30	1	7	30	1	7	30
Immersing time (days)	1	7	30	1	7	30	1	7	30
Tap water (23°C)	0.1	0.4	1.0	0.1	0.5	1.1	0.1	0.6	1.3
5% Salt solution	0.1	0.4	0.9	0.1	0.5	1.2	0.1	0.5	1.2
10% Caustic Soda Solution	0.1	0.4	0.8	0.2	0.4	1.0	0.2	0.5	1.1
10% Ammonia Solution	0.2	0.5	1.1	0.3	0.7	1.2	0.2	0.6	1.3
5% Sulfuric Acid Solution	0.5	0.9	1.5	0.8	1.5	2.6	1.2	12.9	5.3
5% Hydrochloric Acid Solution	0.1	0.5	1.0	0.3	0.8	1.7	0.9	1.9	3.3
Kerosene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Isopropanol	0.3	0.5	1.0	0.2	0.2	0.5	0.7	1.2	1.8
Methyl-isobutyl-ketone	14.5	22.4	BROKEN	9.0	12.8	17.6	5.4	8.8	14.3