





## SANHO CHEMICAL CO., LTD.

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### 5. LAP SHEAR STRENGTH

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

Curing Temperature : 23°C for 7 days

Mild steel plates with sand blast treatment were employed whereon the lap shear strength of the mixtured resin of the epoxy resin and KINGMIDE 315-L was measured.

Epoxy resin / KINGMIDE 315-L	55 / 45	60 / 40	65 / 35	70 / 30	75 / 25
Lap shear strength (kgf/cm <sup>2</sup> )	178	189	173	168	183

### 6. CHEMICAL RESISTANCE

Percentage increase in weight of the cured products of KINGMIDE 315-L and the same epoxy resin as employed above were measured as follow after being cured at 23°C for 7 days, and immersing into respective chemical substances.

Unit : %

Epoxy resin / KINGMIDE 315-L	60 / 40		65 / 35		70 / 30	
Immersing time ( days)	7	30	7	30	7	30
Tap water (23°C)	0.7	1.9	0.5	1.4	0.4	1.2
5% Salt solution	0.7	1.7	0.5	1.2	0.4	1.2
10% Caustic Soda Solution	0.6	1.3	0.3	1.0	0.4	1.0
10% Ammonia Solution	0.5	1.5	0.5	1.3	0.3	1.1
5% Sulfuric Acid Solution	9.6	19	3.1	5.8	0.8	1.7
5% Hydrochloric Acid Solution	4.8	10	1.7	3.6	0.6	1.5
Kerosene	0.1	0.1	0.0	0.2	0.0	0.2
Isopropanol	3.6	7.1	2.1	3.4	1.6	2.5
Methyl-isobutyl-ketone	7.9	14	8.6	12	14	18