





# SANHO CHEMICAL CO., LTD.

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## 4. MECHANICAL PROPERTIES

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

Epoxy resin / KINGCURE X-165A		100 / 40	100 / 50	100 / 60
Tensile Strength	(kgf/mm <sup>2</sup> )	3.0	6.1	6.0
Bending Strength	(kgf/mm <sup>2</sup> )	2.6	7.9	7.8
Flexural Modulus	(kgf/mm <sup>2</sup> )	0.9×10 <sup>2</sup>	2.9×10 <sup>2</sup>	3.0×10 <sup>2</sup>
Compressive strength	(kgf/mm <sup>2</sup> )	4.5	7.6	7.0
Izod Impact Strength	(kgf/cm-cm)	2.6	2.7	2.9
Rockwell Hardness	(m-scale)	6	69	63
Shore D.	D-scale	79	81	81
Heat Distortion Temp	(°C)	31	43	43

## 5. CHEMICAL RESISTANCE

Epoxy resin : bisphenol-A type liquid epoxy resin whose epoxy equivalent weight is about 190

Cured 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-165A	100 / 40			100 / 50			100 / 60		
	1	7	30	1	7	30	1	7	30
Immersing time (days)									
Tap water (23°C)	0.3	0.8		0.2	0.7		0.3	0.8	
5% salt water solution	0.3	0.7		0.2	0.7		0.3	0.8	
10% caustic soda solution	0.2	0.6		0.2	0.5		0.2	0.6	
10% ammonia solution	0.3	0.8		0.3	0.9		0.4	1.0	
5% sulfuric acid solution	0.3	0.8		0.4	1.0		0.6	1.5	
5% hydrochloric acid solution	0.2	0.7		0.3	0.8		0.4	1.0	
Kerosene	0.0	0.0		0.0	0.0		0.0	0.0	
Isopropanol	0.1	0.3		0.0	0.1		0.0	0.2	
Methyl isobutyl ketone	4.5	14.3		0.4	1.9		0.3	1.1	