



# Shanghai King Chemical Co.,Ltd

Tel: +86-21-67817854 Fax: +86-21-67817855

Address: ROOM CDEF , 9th Floor, Building D, Weijing Center Tower  
NO.2337 GuDai Road, Minhang District, Shanghai, China

## Description

KC-1828 is a medium viscosity liquid epoxy resin produced from bisphenol A and epichlorohydrin. It contains no diluents. KC-1828 provides good pigment wetting and good resistance to filler settling and a high level of mechanical and chemical resistance properties in the cured state. However, as an unmodified pure bisphenol A resin, KC-1828 is prone to crystallize on storage, particularly in cold conditions.

## Sales specifications

Property	Unit	Value	Test method
<b>KC-1828</b>			
Appearance	Transparent liquid		
Epoxy group content	mmol/kg	5260-5420	ASTM D1652
Epoxy molar mass*	g/eq	(184-194)	
Viscosity at 25°C	Pa. s	11.0-15.0	ASTM D1545
Color	Pt/Co scale ≦	50	ASTM D1209
Hydro-Cl (mg/kg)	(mg/kg) ≦	1000	ASTM D1726

\* Grams of resin containing 1 g-equivalent of epoxide. (WPE, Weight per equivalent, is an alternative term).

\*\* 1 Pa.s = 10 poise

## Typical properties

Property	Unit	Value	Test method
<b>KC-1828</b>			
Density at 25°C	kg/L	1.16	
Flash point (PMCC)	°C	>150	ASTM D93

\* PMCC : Pensky-Martens closed-cup



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### Test methods

ASTM Standatds are published by the American Society for Testing and Materials, 1000 Barr Harbor Drive, West Conshohocken, PA 19428-2959, USA.

YN methods mentioned are available from King Chemical Co., Ltd.

### Applications

Electrical and electronic industries (potting, casting, impregnating). Building and civil engineering industries (floorings, adhesives, mortars, grouts). Filament winding for composites solvent-free and high-solids coatings.

### Storage

KC-1828 should be stored in conditions so that moisture is excluded, preferably in the original containers kept tightly closed. Under these conditions and at normal temperatures the storage life should be at least one year. If KC-1828 develops a haziness or crystallizes on storage, this can be dispersed and the resin restored to its original condition by warming to 45~50°C, with stirring.

### Handling precautions

Reference must be made to the Material Safety Data Sheet for this product.

KC is a K I N G Chemical trade mark.

The information contained in this publication is, to the best of our knowledge, true and accurate but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.