

TDS KER 828

KERepoxyresins

DATASHEET

Description

KER 828 is a medium viscosity liquid epoxy resin produced from bisphenol A and epichlorohydrin. It contains no diluents. KER 828 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, KER 828 is prone to crystallize on storage, particularly in cold conditions.

Note : KER 827 and 828 are unmodified resins of similar type and performance ; they offer the formulator a choice of viscosity.

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.

Sales specifications

Property	Unit	Value	Test method
Epoxy group content	mmol/kg	5260-5420	ASTM D1652
Epoxy molar mass*	g	(184~190)	
Viscosity at 25°C	Pa.s**	12~14	ASTM D445
Color	Pt/Co scale	100max	ASTM D1209

* 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
Density at 25°C	kg/L	1.16	KPB-QC2-242
Flash point (PMCC)	°C	>249	ASTM D93

* PMCC : Pensky-Martens closed-cup

Test methods

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

KPB methods mentioned are available from Kumho P&B Chemicals, Inc.

Storage

KER 828 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 KER 828 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.