



TECHNICAL DATA SHEET

RESMOK-3003K

Description

RESMOK-3003K is a solid epoxy resin produced from bisphenol A and epichlorohydrin.

Application

RESMOK-3003K has been designed for the manufacture of powder coatings. When cured with an appropriate curing agent, RESMOK-3003K produces powders with excellent flow, gloss and film appearance and a high level of mechanical and chemical resistance properties.

Sales specifications

Property	Unit	Value	Test method
Epoxy group content (Epoxy molar mass*)	mmol/kg (g/eq)	1260 ~ 1420 (704 ~ 794)	ASTM D1652
Viscosity at 25°C**	mPa.s***	13 ~ 17	ASTM D445
Color**	Pt/Co scale	100 max	ASTM D1209

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

**40% m/m solution in methyl ethyl ketone.

***1 mPa.s = 1 cps



Typical properties

Property	Unit	Value	Test method
Density at 25°C	Kg/L	1.19	KPB-QC2-242
Glass transition temp. (Tg)	°C	50	ASTM D3418
Melting range	°C	80 ~ 96	
Melt viscosity at 150°C at 175°C	Pa.s* Pa.s	3.5 0.7	
Esterifiable group content	mmol/kg	5290	KPB-QC2-241
Hydroxyl group content	mmol OH/kg	2690	KPB-QC2-241
Molecular weight (approx.Mn)		1500	
Flash point (PMCC)	°C	>200	ASTM D93

*1 Pa.s = 10 poise

*PMCC : Pensky – Martens closed – cup

Test methods

ASTM Standards are published by the American Society for Testing and Materials, 1961 Race Street, Philadelphia, Pa 19103, USA.

Storage

RESMOK-3003K should be stored in dry conditions away from sources of heat, preferably in the original containers kept tightly close. Under these conditions and at normal temperatures the storage life should be at least one year.

Handling precautions

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