



High Performance | Nanoparticles | Eco-friendly

AKD-1608 - DATASHEET

Introduction

AKD-1608 is a formulation dedicated to prepreg manufacturer. It is based on solid Bis-A, semi-solid Bis-A and nanochemicals to meet the requirements of the prepreg manufacturers process. This formulation is designed to improve mechanical performance such as crack propagation resistance, impact resistance and fatigue resistance.

Features

- ✘ Sporting goods,
- ✘ Wind Energy,
- ✘

Typical properties for AKD-1608

Property	Test method	Unit	Value
Epoxide Equivalent Weight ¹	ASTM D1652	g/eq	333-350
Viscosity @ 60°C (140°F)	ASTM D445	Pa.s	300
@ 70°C (158°F)			170
Density @ 25°C (77°F)		g/ml	1.19
Physical form			Black Paste

¹ ASTM D1652 (Epoxy Content of Epoxy Resins – Perchloric Acid Method)

General Information

The special design of AKD-1608 makes it suitable for the HOT-MELT prepreg manufacturing using DICY or DDS based hardener systems. This formulation is designed to get a very low tack at room temperature.



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Identification and classification

Chemical abstract Service Registry number:

25036-25-3 (EPA/TSCA inventory designation)

Generic Name:

Solid bisphenol A Epichlorhydrin based epoxy resin.

Chemical designation:

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[[1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]

Packaging and Storage

AKD-1608 is an epoxy resin based formulation available in 20 or 200 kg net closed head drums. AKD-1608 can be stored at room temperature.

For more information on storage, consult Nanoledge.

SAFETY & HANDLING

These products are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. Exposure to these materials should be minimized and avoided. **None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them.** Questions and requests for information on Nanoledge Specialty products should be directed to NANOLEDGE.

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