



DESCRIPTION

EC-392 is a phenyl ester epoxy curative hybrid of bisphenol A. This unique molecule allows for cure with epoxy via the phenyl ester as well as free-radical or ene cure via the allyl groups. This can create a highly cross-linked polymer. The monomer is a fluid liquid making it ideal for formulating liquid adhesives and pastes.

HIGHLIGHTS

• Dual cure mechanism	• Multifunctional
• High cross-link density	• Thermal stability

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	METHOD	RESULT
Appearance at Room Temperature	Visual	Amber liquid
Viscosity at 25°C (typical)	Haake Rheometer	3,200 cps
Functionality		4
Molecular Weight		392
Recommended Storage Temp		10°C or below

Data is for reference only and may vary depending on testing method used. The structure shown above is an idealized representation of a statistical distribution.

RECOMMENDED FORMULATION USE:

EC-392 is recommended for use in epoxy systems or in combination with acrylates, methacrylates, and maleimides. For an all epoxy system a 20% excess of epoxy is recommended for thermosets. Levels of difunctional epoxies near equivalent ratios can produce tough thermoplastic resins.

Standard epoxy catalysts such as amines, imidizoles, and Lewis acids work well to cure the EC-392 with an epoxy resin. Standard free-radical initiators work well to cross-link through allyl groups. Bismaleimides, in the absence of free-radical initiators, can also be used to cure the pendant allyl groups in EC-392 via ene and Diels-Alder reactions.

CONTACT:

REQUEST A SAMPLE OR PLACE AN ORDER

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