

Technical Data Sheet Poly bd[®] 605E

Epoxidized Hydroxyl Terminated Polybutadiene Resin

DESCRIPTION:

Poly bd[®] 605E is a multifunctional, hydroxyl terminated, epoxidized resin offering the compounder a variety of functionalities for formulating finished products. Poly bd[®] 605E resin is hydroxyl terminated and brings hydrophobicity, flexibility, and water resistance to urethane applications. In addition, oxirane oxygen groups on the polymer backbone allow it to be used as the sole resin in epoxy formulations or in combination with bisphenol A or cycloaliphatic epoxy resin formulations. The epoxy groups will cure with Lewis acids or anhydrides.

PRODUCT HIGHLIGHTS / PERFORMANCE PROPERTIES:

UV cationic curable Epoxy flexibilizer Water resistance Adhesion to a variety of substrates

SUGGESTED APPLICATIONS:

Adhesives and sealants Electrical potting and encapsulation Polymer modification Coatings

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

Property	Test Method	Value	Unit
Molecular Weight (Mn)	GPC	1,450	g/mol
1,2 Vinyl	Proton NMR/ IR	20	wt.%
Viscosity @ 30°C	ATO-8028	22,000	cps
Tg	DSC	-47	ϰ
Specific Gravity @ 23°C	ATO-8026	1.01	-
-OH (Groups/Chain)	Titration/VPO	2.5	-
Epoxy Equivalent Weight	ATO-8022	300	-

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