

Technical Data Sheet Poly bd[®] 700S

Epoxidized Hydroxyl Terminated Polybutadiene Resin

DESCRIPTION:

Polybd[®] 700S is a multifunctional, hydroxyl terminated, epoxidized resin offering the compounder a variety of functionalities for formulating finished products. The 700S resin 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. Polybd[®] 700S resin may be used as a reactive oligomeric additive in cationically cured coatings to impart high flexibility and impact resistance. The epoxy groups will cure with Lewis acids or anhydrides; however, primary and secondary amines are not recommended as curing agents.

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	3,000	g/mol
1,2 Vinyl	Proton NMR/ IR	20	wt. %
Viscosity @ 30°C	ATO-8028	10,000	cps
Tg	DSC	-65	°C
Specific Gravity @ 25°C	ATO-8026	1.01	-
-OH (Groups/Chain)	Titration/VPO	2.5	-
Epoxy Equivalent Weight	ATO-8022	300	-

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