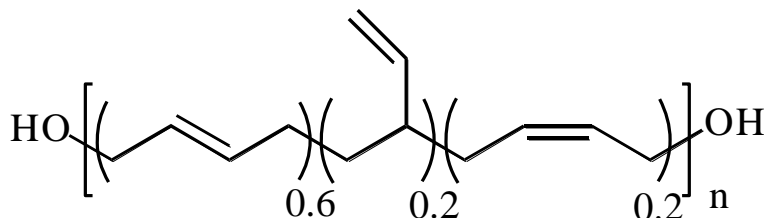


Technical Data Sheet: Poly bd[®] R-45HTLO

HYDROXY TERMINATED POLYBUTADIENE RESIN



DESCRIPTION

Poly bd[®] R-45HTLO resin is a liquid hydroxyl terminated polymer of butadiene. Poly bd[®] resins have primary allylic alcohol groups that exhibit high reactivity in either condensation polymerization reactions or the preparation of derivatives

PRODUCT HIGHLIGHTS

- Hydrophobicity
- Reactive hydroxyl groups
- Low glass transition temperature
- Miscibility with asphalt
- Low color - high clarity

PERFORMANCE PROPERTIES

- Hydrolytic stability
- Low temperature flexibility
- Low moisture permeability
- Resistance to aqueous acids and bases
- Excellent adhesion to a variety of substrates
- Electrical insulative properties

SUGGESTED APPLICATIONS

- Potting and encapsulation
- Adhesives, Sealants
- Polymer Modification
- Binders, Waterproof coatings and membranes
- Polyurethanes

Poly bd[®] R-45HTLO TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Non-Volatile Material, wt.%,	99.9
Viscosity, mPa.s @ 23 °C	8000
Viscosity, mPa.s @ 30 °C	5000
Hydroxyl Number, mg KOH/g	47.1
Hydroxyl Value, meq/g	0.84
Hydroxyl Functionality	2.4-2.6
Molecular Weight, M _n	2800
Polydispersity, M _w /M _n	2.5
Water, wt.%,	0.02
Specific Gravity @ 23 °C	0.901
Iodine Number, g/100 g	400
Glass Transition Temperature, °C	-75
Solubility in g/100 ml. Solvent @ 23 °C	
Mineral Spirits	>50
Toluene	>50
Chloroform	>50
Methyl Ethyl Ketone	>50
Ethyl Acetate	>50
Acetone	<10 ⁽¹⁾
Hexane	>50
Aromatic 100	>50
Isopropanol	<10 ⁽¹⁾

(1) Cloudy: 5% solution also cloudy

Regulatory Notice

Poly bd[®] R-45HTLO is regulated by the United States Department of Commerce and may not be exported without license from that organization.