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Technical Data Sheet:

Poly bd[®] R20LM

LOW MOLECULAR WEIGHT HYDROXYL TERMINATED POLYBUTADIENE RESIN

$$HO$$
 $O.6$
 $O.2$
 $O.2$
 $O.2$
 $O.2$
 $O.3$
 $O.4$
 $O.5$
 $O.5$

DESCRIPTION

Poly bd[®] R-20LM 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

Electrical insulation properties
High solids loading
Hydrolytically stable
Low glass transition temperature
Low moisture permeability
Low temperature flexibility
Resistance to aqueous acids and bases

PERFORMANCE PROPERTIES

High Clarity Hydrophobicity Low Color Reactive Hydroxyl Groups

SUGGESTED APPLICATIONS

Adhesives
Coatings, waterproof
Electronics, potting compounds
Encapsulants
Sealants
Polymer modification
Polyurethanes

Poly bd[®] R20LM

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Hydroxyl Value, meq/g lodine Number, g/100 g Molecular Weight, g/mol. Non-Volatile Material (Poly bd)(%) Polydispersity	1.8 420 1300 99.9 2
Solubility in g/100 ml. Solvent @ 23 °C	_
Acetone	<10 ⁽¹⁾
Aromatic 100	>50
Chloroform	>50
Ethyl Acetate	>50
Hexane	<10 ⁽¹⁾
Isopropanol	<10 ⁽¹⁾
Methyl Ethyl Ketone	>50
Mineral Spirits	>50
Toluene	>50
Tg, °C	-70
Viscosity, @ 30 °C, cps	1500

(1) Cloudy: 5% solution also cloudy

Regulatory Notice

Poly bd[®] R20LM is regulated by the United States Department of Commerce and may not be exported without license from that organization.

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