

Technical Data Sheet

Poly bd[®] R45 V

Hydroxyl Terminated Polybutadiene Resin

DESCRIPTION:

Poly bd[®] R45 V resin is a low molecular weight, liquid hydroxyl terminated polymer of butadiene. Poly bd[®] resins have primary, predominantly allylic hydroxy groups that exhibit high reactivity in chemical reactions for the preparation of derivatives.

PRODUCT HIGHLIGHTS / PERFORMANCE PROPERTIES:

- Electrical insulative properties
- Miscibility with asphalt
- High solids loading
- Hydrolytically stable
- Good water resistance
- Low moisture permeability
- Resistance to aqueous acids and bases
- Low temperature flexibility
- Excellent adhesion to a variety of substrates

SUGGESTED APPLICATIONS:

- Adhesives and sealants
- Coatings
- Electrical potting and encapsulation
- Polymer modification
- Polyurethanes
- Binders

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

Property	Test Method	Value	Unit
Molecular Weight (Mn)	GPC	2,800	g/mol
1,2 Vinyl	Proton NMR/ IR	20	wt. %
Viscosity @ 23°C	ATO-8028	5,000	cps
Tg	DSC	-75	°C
Specific Gravity @ 23°C	ATO-8026	0.90	-
-OH (Groups/Chain)	Titration/VPO	2.5	-

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