



## POLYMER DIVISION

Manufacturers of Unsaturated Polyester Resins  
No.44, (Old No.151), Eldams Road, Chennai – 600 018. INDIA  
Ph : 91-44-24358986, 24335105; Fax : 24363396,  
E-mail : [vbr@vsnl.com](mailto:vbr@vsnl.com), Website : [www.vasavibala.com](http://www.vasavibala.com)

### TECHNICAL BROCHURE – EPOXY RESIN

#### **GRADE: VBR 8912**

VBR 8912 is a general purpose liquid Epoxy Resin based on Bisphenol-A and Epichlorohydrin. It is a high viscous solvent free resin suitable for both room temperature and high temperature cure applications. It is compatible to wide variety of curing agents such as polyamines, polyamides, amido amines, cycloaliphatic amines etc... These can be used as hardener depending upon the process and end use application.

PROPERTIES		
Parameter	Value	Test Method
Appearance	Colorless to mild yellow clear liquid	
Epoxy Equivalent weight, (g/eq)	184 – 191	ASTM D 1652
Epoxy content, (%)	22.4 – 23.6	ASTM D 1652
Epoxy Value, (Eq/kg)	5.25 – 5.45	ASTM D 1652
Viscosity @ 25°C (mPa.s)	11000 – 15000	IS 6746 : 1994
Color, APHA on PFX 195	0 - 100	ASTM D 1209
Density @ 25°C (77°F), (g/ml)	1.15 – 1.18	ASTM D 4052
Flash point, °C (°F)	252 (486)	ASTM D 93
Non-volatile content, (wt%)	99 - 100	IS 6746 : 1994
Geltime @25 deg C (min)*	60 – 80	IS 6746 : 1994

#### **Mixing Ratio:**

\*1 Part Hardener (VBR 1209) and 2 part Epoxy Resin (VBR 8912)

#### **APPLICATION**

Adhesives, coating, casting and tooling, lamination, potting and encapsulation, compression moulding , infusion etc.

#### **STORAGE**

Store at 5-40°C in tightly sealed containers. Under these conditions, the shelf life will be 3 years from the date of manufacture.

#### **PACKING**

35 Kg. HDPE carbuoys and 220 kg. coated steel or Plastic barrels.