



Vasavibala Resins (P) Ltd.

POLYMER DIVISION
Manufacturers of Unsaturated Polyester Resins

TECHNICAL BROCHURE – UNSATURATED POLYESTER RESINS

GRADE : VBR 5622 –Two component Unsaturated Polyester Impregnating Resin

VBR 5622 is an electrical grade insulating resin suitable for impregnation application. It consists of functional fillers compatible with resin system to provide colorless translucent coating. Since it is a high cross linked unsaturated polyester resin system, it shows very good thermal stability under electrical load in the cured state.

Resin curing is initiated by the addition of high temperature hardeners such as Di cumyl peroxide, Tertiary butyl per benzoate etc. The free radical propagation reaction continues until to get a three dimensional cross linked thermosetting polymeric material.

PROPERTIES OF LIQUID RESIN

Appearance	Colorless opaque liquid
Viscosity at 25° C, mPa.s (Brookfield Viscometer LV DV II + Pro Spindle 62, rpm 30)	250 – 600
Density at 25° C	1.2 – 1.3
Gel time at 25°C,min(10 g at 125 C)	7 - 14
Shelf life at 25° C, months	3

Test Method : IS 6746:1994

PROPERTIES OF CURED RESIN

After perfect cure, VBR 5622 gives natural colored opaque coating on the surface. The coating is tough and hard material with good mechanical and dielectric properties. Due to high filler content it posses very good heat dissipation characteristics. The cured material shows good resistance to water, solvents, oil, vapor and other chemicals.

APPLICATION

VBR 5622 can be used in all conventional impregnating resin plants. Processing can be done under vacuum or by pressure. Losses of monomer during processing should be compensated to maintain the specified viscosity. Since the activated resin is highly reactive the holding temperature should not exceed 25° C.



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STORAGE

VBR 5622 should be stored in closed air tight containers inside covered area. The storage temperature not exceeding 25°C is preferable. At higher storage temperature, the shelf life decreases sharply. It should not be exposed to direct sunlight, heat radiation and moisture; these may cause premature gelation. VBR 5622 is guaranteed for 3 months from the date of manufacture provided the storage conditions are strictly adhered to.

PACKING

220 Kg. coated steel barrels.



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