



Vasavibala Resins (P) Ltd.

POLYMER DIVISION
Manufacturers of Unsaturated Polyester Resins

TECHNICAL BROCHURE – UNSATURATED POLYESTER RESINS

GRADE : VBR 2307 – ORTHO POTTING RESIN

VBR 2307 is a low reactivity orthophthalic based potting resin designed for the production of very low shrinkage products.

PROPERTIES OF LIQUID RESIN	
Appearance	Clear to pale yellowish liquid
Viscosity at 25° C, cP (Brookfield Viscometer LV DV II + Pro Spindle 63, rpm 100)	100 – 150
Specific gravity at 25° C	1.1 – 1.12
Acid value, mg KOH/gm	23 – 27
Volatile content, %	36 – 40
Shelf life at 25° C, months	3
Gel time at 25° C, minutes*	15 – 25
Peak exotherm, °C**	110 – 120

* Mix VBR 2307 Resin - 100 gm, VBR 1203 – 1.5 ml, VBR 1204 - 1.5ml

** Under insulated Condition for 100 gm mixture.

Caution : VBR 1203 should never be independently mixed with VBR 1204, as this would cause explosion.

PROPERTIES OF UNREINFORCED CURED RESIN CASTING

The specimens are prepared by separately mixing 1.5% of VBR 1207 and 1.5% VBR 1204 with VBR 2307 and casted in a closed cell of specified dimension. These castings are cured for 24 hrs at room temperature and post cured at 90°C for 4 hrs.



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PROPERTIES OF RESIN CASTING

Barcol Hardness	26
Tensile Strength, MPa	40 - 45
Flexural Strength, MPa	85 - 95
Heat distortion temperature, °C	50-60
Water Absorption at 25°C over a period of 700 hrs, %	< 0.3
Elongation at break, %	4 – 5

TEST METHOD

IS 6746 – 1994.

APPLICATION

VBR 2307 is specifically meant for the production of low shrinkage electrical products.

STORAGE

VBR 2307 should be stored in closed 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 2307 is guaranteed for 3 months from the date of manufacture provided the storage conditions are strictly adhered to.

PACKING

35 Kg. HDPE carbuoys and 220 Kg. coated steel barrels.