



# Vasavibala Resins (P) Ltd.

POLYMER DIVISION  
Manufacturers of Unsaturated Polyester Resins

## TECHNICAL BROCHURE – UNSATURATED POLYESTER RESINS

### GRADE : VBR 2307 NW – ORTHO MIRROR SANDWICH RESIN

VBR 2307NW is a low reactivity orthophthalic resin designed for the production of mirror sandwich 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	1.11 – 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 2307NW 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 1203 and 1.5% VBR 1204 with VBR 2307NW 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	60 - 70
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 2307NW is specifically meant for the production of mirror sandwich products.

## STORAGE

VBR 2307NW 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 2307NW 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.