



Vasavibala Resins (P) Ltd.

POLYMER DIVISION

Manufacturers of Unsaturated Polyester Resins
No.44, (Old No.151), Eldams Road, Chennai – 600 018. INDIA
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TECHNICAL BROCHURE – UNSATURATED POLYESTER RESIN

GRADE : VBR 6701 – ORTHOPHTHALIC GELCOAT

VBR 6701 is an orthophthalic gelcoat formulated for hand lay-up application. It has excellent air release properties. It achieves good coverage in thin film and does not drain on the mould. It shows good water and weather resistance.

PROPERTIES OF ORTHO GEL COAT		
Appearance	:	Pale yellowish hazy thixotropic
Viscosity at 25° C (Brookfield Viscometer LV DV II + Pro Spindle 64, rpm 60)	:	6000-8000
Specific gravity at 25° C gm/ml	:	1.14 – 1.16
Acid value, mg KOH/gm	:	26 - 30
Volatile content, %	:	28 – 32
Shelf life at 25° C, months	:	3
Gel time at 25° C, minutes*	:	10 – 18
Peak exotherm, °C**	:	160 – 170

* Mix VBR 6701 - 100 gm, VBR 1201 – 1.5 ml, VBR 1204 - 1.5ml

** Under insulated Condition for 100 gm mixture.

Caution : VBR 1201 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% each of VBR 1201 and VBR 1204 with VBR 6701 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 GEL COAT CASTING

Hardness (Barcol)	:	38
Tensile Strength, N/mm ²	:	50
Flexural Strength, N/mm ²	:	80
Heat distortion temperature, °C	:	65
Water Absorption at 25°C over a period of 700 hrs, %	:	0.40
Elongation at break, %	:	2.3

TEST METHODS

IS 6746 – 1994

APPLICATION

VBR 6701 is suitable for all general purpose moulding.

STORAGE

VBR 6701 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 6701 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.