



# Vasavibala Resins (P) Ltd.

## 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 – UNSATURATED POLYESTER RESIN**

#### **GRADE : VBR 6703 – ISOPHTHALIC GELCOAT**

VBR 6703 is an Isophthalic gel coat 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.

<b>PROPERTIES OF ORTHO GEL COAT</b>		
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	:	1.13 – 1.15
Acid value, mg KOH/gm	:	16 - 20
Volatile content, %	:	30 – 34
Shelf life at 25° C, months	:	3
Gel time at 25° C, minutes*	:	10 – 20

\* Mix VBR 6703 - 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 6703 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)	:	42
Tensile Strength, N/mm <sup>2</sup>	:	56
Flexural Strength, N/mm <sup>2</sup>	:	110
Heat distortion temperature, °C	:	80
Water Absorption at 25°C over a period of 700 hrs, %	:	0.30
Elongation at break, %	:	2.3

### TEST METHODS

IS 6746 – 1994

### APPLICATION

VBR 6703 is suitable for all general purpose and marine application.

### STORAGE

VBR 6703 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 6703 is guaranteed for 3 months from the date of manufacture provided the storage conditions are strictly adhered to.

### PACKING

25 kg, 35 Kg. HDPE carbuoys and 225 Kg. coated steel barrels.