



# 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 6706 – Iso NPG Gel coat

VBR 6706 is an isophthalic based NPG gel coat formulated for spray-up application. It has excellent water and chemical resistance. It achieves good coverage in thin film and does not drain on the mould.

PROPERTIES OF ISO NPG GEL COAT		
Appearance	:	Pale yellowish hazy thixotropic
Viscosity at 25° C(Brookfield Viscometer LV DV II + Pro Spindle 64, rpm 30)	:	5000-7000
Specific gravity at 25° C gm/ml	:	1.07 – 1.09
Acid value, mg KOH/gm	:	10 - 14
Volatile content, %	:	36 – 40
Shelf life at 25° C, months	:	3
Gel time at 25° C, minutes*	:	8 – 15
Peak exotherm, °C**	:	180 – 190

\* Mix VBR 6706 - 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 6706 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)	:	48
Tensile Strength, N/mm <sup>2</sup>	:	80
Flexural Strength, N/mm <sup>2</sup>	:	138
Heat distortion temperature, °C	:	95
Water Absorption at 25°C over a period of 700 hrs, %	:	0.20
Elongation at break, %	:	2.8

### TEST METHODS

IS 6746 – 1994

### APPLICATION

VBR 6706 is suitable for high HDT, good water and chemical resistance.

### STORAGE

VBR 6706 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 6706 is guaranteed for 3 months from the date of manufacture provided the storage conditions are strictly adhered to.

### PACKING

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