



Vasavibala Resins (P) Ltd.

POLYMER DIVISION
Manufacturers of Unsaturated Polyester Resins

TECHNICAL BROCHURE – UNSATURATED POLYESTER RESINS

GRADE : VBR 7804 – ORTHOPHTHALIC PUTTY RESIN

VBR 7804 is a medium reactivity; medium viscous orthophthalic based putty resin designed for the automotive applications. This resin high flexibility and good adherence to steel

PROPERTIES OF LIQUID RESIN

Appearance	Pale yellowish clear liquid
Viscosity at 25° C, cP (Brookfield Viscometer LV DV II + Pro Spindle 63, rpm 60)	400 – 600
Density at 25° C	1.13 – 1.15
Acid value, mg KOH/gm	20 – 24
Volatile content, %	30 – 34
Shelf life at 25° C, months	3
Gel time at 25° C, minutes*	20 – 30

* Mix VBR 7804 Resin - 100 gm, VBR 1206 – 1.5 ml, VBR 1205 - 3 g

PROPERTIES OF UNREINFORCED CURED RESIN CASTING

The specimens are prepared by separately mixing 1.5% each of VBR 1201 and VBR 1204 with VBR 7804 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.

PROPERTIES OF RESIN CASTING

Barcol Hardness	30 – 40
Tensile Strength, MPa	> 50
Flexural Strength, MPa	> 80
Heat distortion temperature, °C	60 - 70
Water Absorption at 25°C over a period of 700 hrs, %	0.50
Elongation at break, %	2.0 – 2.5



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TEST METHOD

IS 6746 – 1994.

STORAGE

VBR 7804 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 7804 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.