



Vasavibala Resins (P) Ltd.

POLYMER DIVISION
Manufacturers of Unsaturated Polyester Resins

TECHNICAL BROCHURE – UNSATURATED POLYESTER RESINS

GRADE : VBR 1208 Hot cure Initiator

VBR 1208 is chemically known as Tertiary butyl per benzoate, an aromatic per ester which is used for the curing of unsaturated polyester based formulations at elevated and high temperature. The other name for this products are tertiary-butyl per oxybenzoate, TBPB, Butyl peroxy benzoate, tert-butyl benzene carboperoxoate etc.

PROPERTIES OF LIQUID RESIN	
Appearance	Pale yellowish clear Liquid
Colour (on Pt-co/APHA, max)	100
Viscosity at 25° C, mPa.S	6.5
Specific gravity at 25° C gm/ml	1.04
Assay,% (min)	98
Active oxygen, %	8.07
Shelf life at 20° C, months	3
Hydroperoxides,%	0.1
Crystalization point, °C	8

APPLICATION

VBR 1208 is preferred for the curing of unsaturated polyester resin formulations at elevated temperature. As it is a high reactive peroxide, it is used in SMC, DMC/ BMC (hot press molding) and pultrusion applications in the temperature range of 120-170°C.

In combination with cobalt accelerators, VBR 1208 is also used for the curing of unsaturated polyester resin in the temperature range of 70°C and higher for air drying lacquers, dip lacquers, panel manufacturing, filament winding etc.



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Storage

Organic peroxides are unstable in nature. Due to this a loss of quality can be detected in VBR1208 over a period of time. To minimize the loss of quality, VBR recommends a maximum storage temperature of 20°C and a minimum temperature of 10°C to prevent crystallization. At higher storage temperature, the shelf life decreases sharply. When stored according to this recommendation, VBR 1208 will remain within the said specification for a period of at least 3 months from the date of delivery.

Safety and handling

Keep the containers tightly closed with a lid with vent. Store and handle in a dry well ventilated place away from sources of heat or ignition, direct sunlight and heat radiation; these may cause spontaneous decomposition. Avoid contact with reducing agents, acids, alkalis, heavy metals and their compounds (amines, accelerators, promoters, driers, metal soaps etc). For further information's refer the material safety data sheet.

Packing

25 Kg. in HDPE cans with air vent. For the availability of other packing's, consult VBR before placing the order.