

# VIAPAL<sup>™</sup> UP 4838 BT/63

**Technical Datasheet** 

## TYPE

Vinyl ester based on bisphenol A pre-accelerated, thixotropic

## REACTIVITY

high reactive

## **PRODUCT DATA**

## Determined per batch:

Non-Volatile Matter DIN 55671 non-volatile matter (120 °C; 5 min; 0,8 g)	[%]	61 - 65
Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity (500 1/s; 23 °C)	[mPa.s]	200 - 300
Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity (2,5 1/s; 23 °C)	[mPa.s]	650 - 900
Acid Value DIN EN ISO 2114 acid value (form of delivery)	[mg KOH/g]	<= 8
Gel Time (UP-Resins) DIN 16945 / 6.3.1.2 gel time 1,5% Butanox M50 (20 °C)	[min]	35 - 50
Colour / Appearance VLN 250 colour appearance		grey cloudy
Not continually determined:		
Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C)	[g/cm³]	1,08
Flash Point DIN EN ISO 1523 flash point approx.	[°C]	34

#### **SPECIAL PROPERTIES**

high heat deflection temperature, high osmosis resistance in combination with a suitable Viapal Gelcoat

## USE

for barrier coats in pool & boatbuilding business, for hand lay up and spray up technique

## **PROCESSING NOTE**

The resin has to be homogenized well in the original packing shortly before processing, either by stirring or by rolling the drums!

#### **CURING**

Curing is possible at room temperature by addition of a suitable peroxide, at room temperature for instance by addition of a suitable methyl ethyl ketone peroxide (e. g. Butanox LPT, Andonox LCR etc.). Curing should take place above 18 °C. By use of inappropriate hardeners an evolution of small gas bubbles in the resin hardener mixture may occur.

#### **PROCESSING TIME**

By adding a commercial inhibitor (e. g. Additol VXL 5918) the processing time can be considerably extended without significant effect on hardening (when adequate amount of hardener is used).

## **POST-CURE**

To achieve optimum curing of mouldings, an elevated temperature postcure is normally required, but this will depend on temperature, time and thickness of the parts used in actual processes. As a guide value for mouldings with 3 mm thickness produced at room temperature postcuring for at least 2 hours at 70 °C is recommended.

## PRECAUTIONS

Please notice the information in the material safety data sheet (MSDS).

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#### **PRODUCT DATA OF CURED RESIN**

Determined per batch:

Not continually determined:

Hardness (BARCOL) DIN EN 59 Barcol-hardness 934-1		42		
Tensile Test (Unreinforced Plastics) DIN EN	ISO 527-2			
tensile strength	[MPa]	70		
breaking elongation	[%]	2,6		
modulus of elasticity in tension	[MPa]	3293		
Density (Solids) DIN EN ISO 1183-1				
density	[g/cm³]	1,18		
(20 °C; Pyknometer Procedure)				
Flexural Test (Unreinforced Plastics) DIN EN ISO 178				
bending strength	[MPa]	107		
flexural strain at flexural strength	[%]	3,3		
flexural modulus	[MPa]	3064		
Heat Deflection Temperature DIN EN ISO 75-2				
heat deflection temperature	[°C]	94		
(annealing: 16 h at 70 °C; outer fiber stress,	1,80 MPa, flat)			
Volume Shrinkage (UP) VLN 304				
volume shrinkage	[%]	8,4		
Water Absorption (Plastics) DIN FN ISO 62				
water absorption	[%]	1.05		
(7 d)	L J	_,50		

Not continually determined data do not constitute a quality description, but correspond to single values, determined on a random sample. Deviations caused by production are possible.

#### TANK CLEANING

If a storage tank is used, it is recommended to clean the tank at least once per year.

## ACCELERATOR

The resin contains Cobalt-accelerator. Prolonged storage can reduce the effect of the accelerator. An addition of 0.5 - 1.0 % Co 1 may be necessary to restore the original potlife.

## STORAGE

At temperatures up to 25  $^\circ \rm C$  storage stability packed in original containers amounts to at least 180 days.

The product should be stored under exclusion of direct sunlight in the original, undamaged and closed packaging in a dry and cool place. Geltime and curing time can change during progressive storage. Shelflife is reduced at higher storage temperatures.

To prevent possible setting phenomena it is recommended to stir the resin in the storage tank or container before use.

In storage tanks the use of circulating pumps is recommended.

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