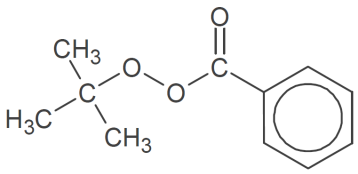
PEROXAN PB

Peroxyester / Curing

Description

tert-Butyl peroxybenzoate
98%, Liquid

PEROXAN PB is used for the curing of unsaturated polyester resins.



Molecular weight:	**194.2**
CAS No.:	**614-45-9**

Technical data

Appearance:	**clear, colourless or light yellow liquid**
Peroxide assay:	**min. 98%**
Active oxygen assay:	**min. 8.07%**
Density at 20°C:	**1.04 g/cm³**

Solubility

Insoluble in water, Soluble in phthalates

Storage

Maximum storage temperature (Ts max):	**30°C**
Minimum storage temperature (Ts min):	**10°C** to prevent freezing
Storage stability as from date of delivery:	**6 months**

Hazardous reactions

Keep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Never weigh out in storage room.

Oxidizing agent. Decomposes violently under the influence of heat or by contact with reducing agent. Never mix with accelerators.

Organic Peroxides are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.

Safety characteristics

Flash point:	>SADT°C
SADT:	60°C

The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.

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Application	PEROXAN PB is used for the curing of unsaturated polyester resins at high temperatures. PEROXAN PB is preferred for the curing of UP resin based hot press moulding formulations in the temperature range from 140° to 160°C. PEROXAN PB is often times used in combination with a high reactive peroxide like PEROXAN BCC or PEROXAN MI-60 K as kicker in in formulations for pultrusion processes in the temperature range of 100° to 140°C. In combination with a cobalt accelerator e.g. PERGAQUICK C100 (10% cobalt), PEROXAN PB is applicable for the cure of UP resins in the temperature range of 70°C and higher. Depending on application and working conditions, the following peroxide and when applicable cobalt accelerator dosage levels are recommended: PEROXAN PB: 1,0 to 2,0 phr PERGAQUICK C100: 0,1 to 0,6 phr
Packaging	**25kg container**
Major decomposition products	**Acetone, Benzoic acid, Benzene, , Carbon dioxide, tert-Butanol**
Safety and handling	Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN PB. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at **www.pergan.com** or through contacting Pergan directly.

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