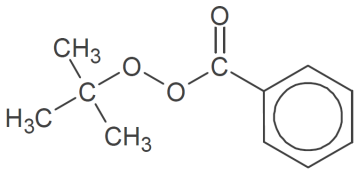
PEROXAN PB-50 P

Peroxyester / Crosslinking

Description

tert-Butyl peroxybenzoate
50%, Powder with chalk

PEROXAN PB-50 P is used for the crosslinking of natural rubber and synthetic rubber, as well as polyolefins.



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

Technical data

Appearance:	**white powder**
Peroxide assay:	**appx. 50%**
Active oxygen assay:	**appx. 4.12%**
Bulk density at 20°C:	**340 kg/m³**

Half life time

in an EPDM compound:

$t_{½}$	10h	1h	0,1h
bei	**87°C**	**110°C**	**136°C**

Solubility

Insoluble in water, Soluble in phthalates

Storage

Maximum storage temperature (Ts max):	**30°C**
Minimum storage temperature (Ts min):	**10°C**
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.

Schlavenhorst 71
D-46395 Bocholt
Germany

Phone: +49 (0)2871 / 99 02-0
Fax: +49 (0)2871 / 99 02-50
www.pergan.com

PEROXAN PB-50 P

Peroxyester / Crosslinking

Application	PEROXAN PB-50 P is recommended for the crosslinking of NBR, SBR, EP(D)M, LDPE and EVA. Rubber compounds containing PEROXAN PB-50 P have moderate processing safety in combination with a very high speed of cure. Safe processing temperature (t2): 100°C Typical crosslinking temperature (t90): 140°C The safe processing temperature t2 is defined as the temperature, at which the scorch time is longer than 20 minutes. The typical crosslinking temperature t90 is defined as the temperature at which 90% of the crosslinks in the compound are formed within about 12 minutes.
Packaging	**25kg cardboard box**
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-50 P. 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.

The information presented herein is true and accurate and to the best of our knowledge, but without any guarantee. Since the conditions of use are beyond our control we disclaim any liability, including for patent infringement, incurred in connection with the use of these products, data or suggestions.

Schlavenhorst 71
D-46395 Bocholt
Germany

Phone: +49 (0)2871 / 99 02-0
Fax: +49 (0)2871 / 99 02-50
www.pergan.com