

PEROXAN BEC

Peroxyester / Crosslinking

Description tert-Butyl peroxy 2-ethylhexyl carbonate

97%, Liquid

PEROXAN BEC is used for the crosslinking of EPDM, EPM, NBR and EVA (Ethyl Vinyl Acetate).

 Molecular weight:
 246.3

 CAS No.:
 34443-12-4

Technical data Appearance: clear liquid

Peroxide assay: min. 97%
Active oxygen assay: min. 6.3%
Density at 20°C: 0.93 g/cm³

Half life time in an EPDM compound:

t ½	10h	1h	0,1h
bei	98°C	117°C	154°C

Solubility Insoluble in water, soluble in phthalates

Storage Maximum storage temperature (Ts max): 30°C

Storage stability as from date of delivery: 6 months

Hazardous reactionsKeep 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 Crosslinking of EPDM, EPM, NBR:

PEROXAN BEC is used for crosslinking of elastomers.

Safe processing temperature (t2): 120°C

Typical crosslinking temperature (t90): 150 to 180°C

Dosing: 1-5 phr*

* depending on elastomer and degree of crosslinking

Crosslinking of EVA (Ethyl Vinyl Acetate):

PEROXAN BEC is especially used for EVA encapsulated (crosslinkable) sheets for photovoltaic products (solar panel manufacture) .

Safe processing temperature (t2): 120°C (at 160°C Typical crosslinking temperature (t90): 160 to

Dosing: 1,5-2 phr*

* depending on elastomer and degree of crosslinking

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 container

Major decomposition products 2-Ethylhexanol, 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 BEC. 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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