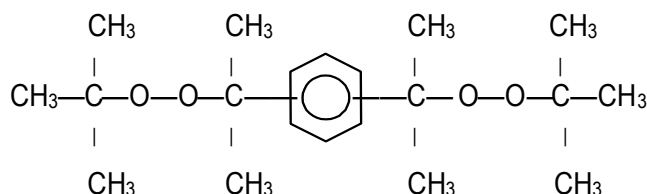


PEROXAN BIB-40 EV-G

Crosslinking
Dialkyl peroxides

Description: Di-(2-tert.-butyl-peroxyisopropyl)-benzene
40% , Granules with EVA

PEROXAN BIB-40 EV-G is used for the crosslinking of natural rubber and synthetic rubber, as well as polyolefins.



Molecular weight: 338,5
CAS No.: 25155-25-3

Technical data: Appearance: off-white granules
Peroxide assay: ca. 40%
Active oxygen assay: ca. 3,78%
Bulk density at 20°C: 350 kg/m³

Half life time: in an EPDM compound

$t_{1/2}$	10h	1 h	0,1 h
at	117°C	146°C	169 °C

Storage: Maximum storage temperature ($T_{s,max}$): 30°C
Storage stability as from date of delivery: 6 months

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.

Thermal stability: SADT: 80°C
Emergency temperature (T_{em}): 75°C

The SADT is the lowest temperature at which a self accelerating decomposition may occur. The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to be taken.

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Application: PEROXAN BIB-40 EV-G is recommended for the crosslinking of NBR, SBR, EP(D)M, LDPE and EVA. Rubber compounds containing PEROXAN BIB-40 EV-G have excellent scorch safety.

Safe processing temperature (t_2): 135°C

Typical crosslinking temperature (t_{90}): 175°C

The safe processing temperature t_2 is defined as the temperature, at which the scorch time is longer than 20 minutes. The typical crosslinking temperature t_{90} is defined as the temperature at which 90% of the crosslinks in the compound are formed within about 12 minutes.

Packaging: 20 kg Cardboard box

Major decomposition products: Methane, Acetone, t-Butanol, Di(2-hydroxyisopropyl)benzene, Diacetylbenzene, Acetyl-2-hydroxyisopropylbenzene

Safety and handling: Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BIB-40 EV-G. 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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