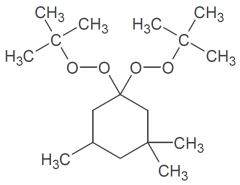
PEROXAN PK295 V

Peroxyketale / Curing

Description

1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane
50%, Solution in odorless white spirits

PEROXAN PK295 V is used for the curing of unsaturated polyester resins.



Molecular weight:	**302.5**
CAS No.:	**6731-36-8**

Technical data

Appearance:	**clear liquid**
Peroxide assay:	**appx. 50%**
Active oxygen assay:	**appx. 5.29%**
Density at 20°C:	**0.83 g/cm³**

Solubility

Insoluble in water, soluble in aliphatics

Storage

Maximum storage temperature (Ts max):	**30°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 PK295 V

Peroxyketale / Curing

Application	PEROXAN PK295 V is used for the curing of unsaturated polyester resins at elevated temperatures. PEROXAN PK295 V is preferred for the curing of UP resin based hot press moulding formulations in the temperature range from 120° to 170°C. The stability of this peroxyketal in an UP resin is hardly influenced by the presence of metal accelerators, pigments or fillers. PEROXAN PK295 V is therefore very suitable for pigmented and non-pigmented hot press moulding formulations where a long shelf life of the compound is required. Depending on working conditions, the following peroxide dosage level is recommended: PEROXAN PK295 V: 2,0 to 3,0 phr
Packaging	**20kg container**
Major decomposition products	**3,3,5-Trimethylcyclohexanone, Acetone, Carbon dioxide, Methane, tert-Butanol**
Safety and handling	Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN PK295 V. 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