

## **PEROXAN HXY-45 P**

**Dialkyl peroxide / Crosslinking** 

Description	2,5-Dimethyl-2,5-di(tertbutylperoxy)hexyne-3 45%, Powder with chalk					
	PEROXA synthetic		P is used	of polyolefins as well as natural rubber and		
	СН <sub>3</sub>   H <sub>3</sub> C—С СН <sub>3</sub>	СН <sub>3</sub> 0-С-С=С≡С СН <sub>3</sub>	СН <sub>3</sub> 0— С—С—О СН <sub>3</sub>	СН <sub>3</sub>   С—СН <sub>3</sub>   СН <sub>3</sub>		
	Molecula CAS No.:	-			286.4 1068-27-5	
Technical data	Appearance: Peroxide assay: Active oxygen assay: Bulk density at 20°C:				white powder appx. 45% appx. 5.03% 430 kg/m <sup>3</sup>	
Half life time	in an EPDM compound:					
	t <sub>1/2</sub>	10h <b>127°C</b>	1h	0,1h		
	bei	127°C	147°C	182°C		
Storage	Maximum Storage s	30°C 6 months				
Hazardous reactions	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	SADT:	SADT: 80°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 HXY-45 P is recommended for the crosslinking of LDPE and HDPE. Compounds containing PEROXAN HXY-45 P have excellent scorch safety.
	Safe processing temperature (t2): 145°C Typical crosslinking temperature (t90): 185°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.
	Dosage level (LDPE/HDPE): 0,9 to 2.2 phr
Packaging	25kg cardboard box
Major decomposition products	2,5-Dimethyl-2,5-di(hydroxy)hexyne-3, Acetone, 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 HXY-45 P. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at <b>www.pergan.com</b> or through contacting Pergan directly.

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