

PEROXAN HX-50 PS

Dialkyl peroxide / Crosslinking

Description	2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane 50%, Powder with silica				
	PEROXAN I polyolefins.	HX-50 F	PS is used	for the crosslinkir	ng of natural rubber and synthetic rubber, as well as
	СН ₃ О Н ₃ С—С—О СН ₃	СН ₃ с —с—сн СН ₃	CH ₃ O- H	СН ₃ —С—СН ₃ —СН ₃	
	Molecular w CAS No.:	veight:			290.4 78-63-7
Technical data	Appearance: Peroxide assay: Active oxygen assay: Bulk density at 20°C:				white powder appx. 50% appx. 5.51% 410 kg/m³
Half life time	in an EPDM compound:				
	t _{1/2}	10h	1h	0,1h	
	bei	118°C	147°C	0,1h 171°C	
Storage	Maximum storage temperature (Ts max): Minimum storage temperature (Ts min): Storage stability as from date of delivery:				40°C 10°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:			80°C	
	(0	composition Temper	ature) is the lowest temperature at which a self



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accelerating decomposition may occur.



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Application	PEROXAN HX-50 PS is recommended for the crosslinking of NBR, SBR, EP(D)M, LDPE and EVA. Rubber compounds containing PEROXAN HX-50 PS have excellent scorch safety.	
	Safe processing temperature (t2): 135°C Typical crosslinking temperature (t90): 175°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	
Packaging Major decomposition products	25kg cardboard box Acetone, Ethane, Methane, tert Amyl-alcohol, tert-Butanol	

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