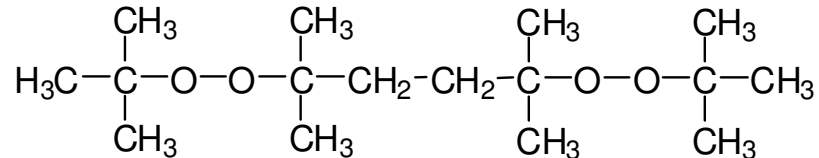


DHBP-1-IC5

2,5-Dimethyl-2,5-di (tert.butylperoxy) hexane
CAS#78-63-7
1% on PP carrier, pearls
Molar mass: 290.4 g/mol

Structural Formula



Description

White pearls, consisting of approx. 1 % w/w 2,5-Dimethyl 2,5-di(tert.butylperoxy) hexane, de-sensitised with polypropylene. This bifunctional dialkyl peroxide can preferably be used as an initiator (radical source) to control rheology of polypropylene at above 200 °C.

Technical Data

Appearance	white to yellowish pearls
Peroxide content	approx. 1 % w/w
Active oxygen (calculated)	approx. 0.11 % w/w
De-sensitising agent	polypropylene
Bulk density	approx. 0.38 kg/l
Critical temperature (SADT)	approx. 90 °C
Recommended storage temperature	below 40 °C
Storage stability as from date of delivery	6 months

This product is in compliance with the ElektroG (E U-Directives: RoHS 2002/95/EG, WEEE 2002/96/EG)

Half-life-time

10 h/1 h/1 min (0.1 m/benzene): 120/142/190 °C

Application

CR-POLYPROPYLEN:

A radical source to control the rheology of polypropylene.
Temperature range: 200-220°C, usage level: 0.1-1.0% w/w of product as supplied, based on the polymer.

Advantage: Good miscibility with PP-granules. Compatible with other PP types, enables homogeneous blending of initiator and polymer.

Vis-breaking effects a considerably lower molecular weight, statistic distribution is significantly narrower. Melt flow index (MFI), i.e. melt flow rate, is increased.

Measurements

Influence of peroxide level on melt-flow index (MFI) of a commercial, unstabilised Polypropylene type			
% w/w Usage level (as supplied)	MFI [g/10 min] at 230°C / 2.16 kg		
	DHBP-20-IC5	DHBP-7.5-IC5	DIPP-40-IC5
-	2.5	2.5	2.5
0.02	6	6	8
0.06	10	7	19
0.10	11	11	33
0.60	52	25	400
1.00	130	37	-

Standard Packaging

20kg in cardboard box

Disclaimer

This information and all further technical advice are reflecting our present knowledge and experience based on internal tests with local raw materials with the purpose to inform about our products and applications. The information should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. We reserve the right to make any changes according to technological progress or further developments.

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