Technical Data Sheet

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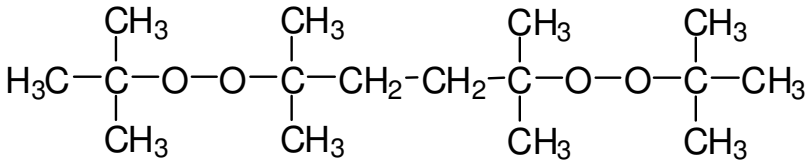
DHBP-7,5-IC5

2,5-Dimethyl-2,5-di (tert.butylperoxy) hexane
CAS#78-63-7
7.5% on PP carrier, pearls
Molar mass: 290.4 g/mol

Structural Formula



Description

White pearls, consisting of approx. 7.5% w/w 2.5-Dimethyl 2.5-di(tert.butyl peroxy) 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.

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Appearance	white to yellowish pearls
Peroxide content	approx. 7.5 % w/w
Active oxygen (calculated)	approx. 0.83 % 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.

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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

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