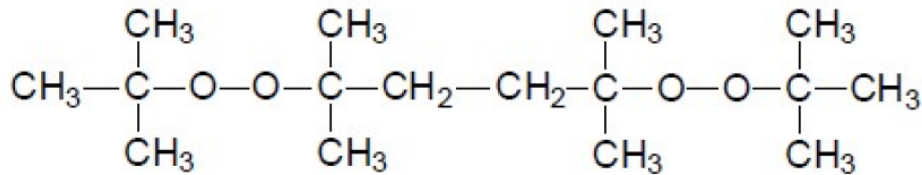


LUPEROX[®] 101PP20

Luperox[®] 101PP20 U is a 20% formulation of luperox[®] 101 E (2,5-dimethyl-2,5-di(tert-butylperoxy)-hexane) on a polypropylene carrier.



Chemical name: 2,5-dimethyl-2,5-di-(tert-butylperoxy)hexane

CAS Number: 78-63-7

Molecular Weight (g/mol): 290.44

STANDARD SALES SPECIFICATIONS

Characteristics	Value
Appearance	Powder
Active oxygen	2.09 – 2.31%

APPLICATIONS

Luperox[®] 101PP20 is a suitable source of free radicals for the controlled rheology of polypropylene in reactive compounds. According to its activity it is efficient in the temperature range of 190°C to 250°C. Depending on the final melt flow rate, typical usage level of Luperox[®] 101PP20 range between 200ppm and 1200ppm (based on pure peroxide). As free flowing granules, Luperox[®] 101PP20 can be metered directly into the hopper of the compounder. On processing, the product combines a high metering accuracy with an excellent and rapid dispersion of the peroxide in polypropylene.

LUPEROX® 101PP20

HALF-LIFE TEMPERATURE

The half-life time of a peroxide $t_{1/2}$ is a suitable means to determine its reactivity. It is dependent on temperature and can be calculated according to the Arrhenius equation.

	Dodecane
$t_{1/2}$ (60 min)	140°C / 284°F
$t_{1/2}$ (600 min)	120°C / 248°F

SAFETY AND HAZARD CLASSIFICATION

Please consult the Safety Data Sheet before using the product.

STORAGE AND HANDLING

Please consult the Safety Data Sheet.

Luperox® 101PP20 is recommended to be stored below +30°C. Below +8°C crystallization of the peroxide may occur. Above +30°C a loss of quality can be expected, which is associated with increasing levels of impurities. Since Luperox® 101 is flammable all proximity to sparks, open fire and sources of heat must be strictly avoided. Any direct contact with accelerators, amines, heavy metal compounds and rust must be avoided as to prevent an accelerated decomposition.

The shelf life of Luperox® 101PP20 comes to 12 months. Packaging should be dated on receipt and used within this time or disposed of.

PACKAGING AND TRANSPORT

Luperox® 101PP20 crosslinking peroxide is packaged in 100 lbs. drums.

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