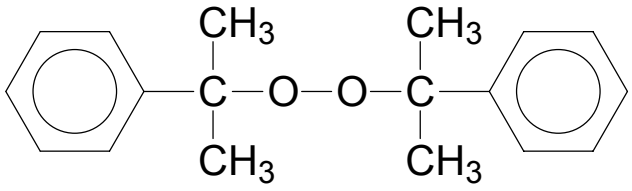
LUPEROX®
Organic Peroxides

LUPEROX® DC40P-SP2
Dicumyl peroxide
40% powder on $CaCO_3$
Molecular weight: 270.4
CAS number: 80-43-3

Specifically designed to provide
outstanding Scorch Protection



APPLICATION

Luperox® DC40P-SP2 is a monofunctional peroxide formulation used for the crosslinking of all kinds of rubbers, natural and synthetics. It is used in many applications such as building profiles, automotive rubber parts, wire and cable, technical rubber parts.

A NEW TECHNOLOGY

Scorch Protection technology provides an outstanding protection against scorch both at mixing and cross-linking temperatures.
SP2 is the ultimate generation of Scorch Protected grade, designed for very scorchy elastomers such as HNBR or/and for very challenging curing conditions (high injection molding temperatures).

SAFETY

S.A.D.T. (Self-Accelerating Decomposition Temperature)
Lowest temperature at which the peroxide, in the largest packaging suitable for shipment, undergoes decomposition without the presence of addition external heating

M.S.T. (Maximum Storage Temperature)
Maximum temperature at which the peroxide can be stored without a significant loss of assay within 12 months

Luperox® DC40P-SP2	S.A.D.T.	= 80°C
	M.S.T.	= 30°C

Please refer to the Safety Data Sheet for further information

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CHARACTERISTICS

Density	Kg/m^3	1530
Bulk density	Kg/m^3	360
Half-life time (in decane)	Min	1 **(at 178°C)**
		6 **(at 159°C)**
		60 **(at 137°C)**
Melting point (pure Luperox® DC)	°C	39
Physical form	-	White powder
Active oxygen	%	2.37
Peroxide content	%	40.0

PERFORMANCES

Performances with 7.5 phr of peroxide (*)	**Unit**	Standard Luperox® DC40	**Luperox® DC40P-SP2**
Mooney Scorch at 130°C			
Scorch time t_{s05} at 130°C	Min: Sec	4: 34	25: 24
Rheometer RPA at 180°C			
Scorch time t_{s2} at 180°C	Min: Sec	0: 23	0: 31
Cure time t_{90} at 180°C	Min: Sec	2: 47	2: 57

*: measured in an EPDM compound based on DUTRAL® TER 4049.

DECOMPOSITION PRODUCTS

The main decomposition products are acetophenone, hydroxyisopropylbenzene, methane

STANDARD PACKAGING

In a 20 kg carton box

V1 – Oct 2006

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