

Milestones for the E&E Industry

EXOLIT® OP FLAME RETARDANTS



2009

Major E&E OEMs want Exolit® OP products for the engineering plastics.



2010

Own synergist for Polyamide applications found and patented.



2012

Commissioning of the second production line.



2013

Clariant in the top 5 nominees for German Innovation Prize with Exolit® OP.



2014

Technology expansion through own synergists.



2019

Exolit® OP receives GreenScreen™ - Benchmark 3 (best in class for flame retardants).

Fraunhofer Institute LBF confirms that Exolit® OP can be recycled.

Collaboration with Neste: Renewable based feedstock.

100% renewable energy production in Knapsack.

Launch of Exolit® Terra



2020

Clariant and Lavergne convert ocean-bound plastics into flame retardant compounds for E&E applications.



1991

Project start to invent a new non-halogenated flame retardant.

1995

Business Line Flame Retardants founded to create a halogen-free portfolio.



1996/97

First set of patents filed for DEPAL (Diethylphosphinic Acid, Aluminum salt) for use as a flame retardant.



1998

First external proof of concept with selected industry partners.



1999

Breakthrough in polyamide applications through new nitrogen synergists.



2001

Exolit® OP pilot scale at Clariant's Knapsack pilot plant.



2002

Decision for large plant in a difficult economic environment.



2004

Full-scale commercial line for Exolit® OP.

Milestones for the Circular Economy

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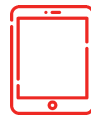
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