## CHEMICAL MARKET ANALYTICS

BY OPIS, A DOW JONES COMPANY

# Nylon Engineering Resins

Edition: 2022



**Brendan Dooley** 

Hongyan Xu

Preeti Sriram

Stefano Caporusso

**World Analysis** 

#### Contents

Introduction	4
Executive Overview - Nylon 6 and Nylon 6,6	5
Strategic Insights	10
Adiponitrile technology breakthrough	10
Automotive transition from ICE to EV	10
Capacity in mainland China	11
Nylon resin material competitiveness	12
Recycling	12
Effects of Chinese anti-dumping duties	13
Impact of supply-chain events	13
Production Process Overview	15
Introduction	15
Nylon 6	15
– Introduction	15
– Water - Catalyzed Melt Polymerization	16
– Introduction	16
– Polymerization Mechanism	16
– Final Chip Production Steps	16
– Nylon 6,6	17
– Nylon Compounding	18
Production Process Economics	19
Explanatory Notes	19
Production Process Economics	20
Price Forecast	27
Methodology	27
Nylon 6	27
– Introduction	27
– North America	28
– Europe	28
– Northeast Asia	29
Nylon 6,6	30
– North America	30
– Europe	30
– Northeast Asia	31
Price Forecast Tables	32
Supply/Demand Forecast Methodolgy	35

### Chemical Market Analytics Customer Service support@chemicalmarketanalytics.com

North America: +1 888.301.2645 (toll-free within the US) International: +1 301.284.2000

#### Disclaimer

The information contained in this report is confidential and proprietary. Any unauthorized use, disclosure, reproduction, or dissemination, in full or in part, in any media or by any means, without the prior written permission of OPIS or any of its affiliates ("OPIS") is strictly prohibited. OPIS or its affiliates own all logos and trade names contained in this report and any use of such logos or trademarks by any third party without permission is strictly prohibited. Any opinions, statements, estimates, and projections in this report are solely those of the individual author(s) at the time of writing. Neither OPIS nor the author(s) has any obligation to update this report in the event that any content, opinion, statement, estimate, or projection (collectively, "information") changes or subsequently becomes inaccurate. OPIS makes no warranty, expressed or implied, as to the accuracy, completeness, or timeliness of any information in this report, and shall not in any way be liable to any content integring and the accuracy. It has any obligation the province marker and shall not in any way be liable to any content integring and the accuracy. makes no warrang, expressed on implicit, as to the accuracy, compreteness, of infiniteness on any information must report, and small notice any way be induce of any recipient for any, naccuracies or omissions. Without limiting the foregoing, OPIS shall have no liability whatsoever to any recipient, whether in contract, in not (includ-ing negligence), under warranty, under statute or otherwise, in respect of any loss or damage suffered by any recipient as a result of or in connection with any infor-mation provided, or any course of action determined, by it or any third party, whether or not based on any information provided. The inclusion of a link to an external website by OPIS should not be understood to be an endorsement of that website or the site's owners (or their products/services). OPIS is not responsible for either the content or output of external websites. © 2022 Oil Price Information Service, LLC. All rights reserved and all intellectual property rights are retained by OPIS and its affiliates.

