

CHEMSYSTEMS **PPE PROGRAM**

Quarterly Business Analysis

Asia Pacific
Quarter 4, 2009

Issued: December 2009



22nd Floor, Rasa Tower, Paholyothin Road, Kwaeng Chatuchak, Khet Chatuchak,
Bangkok 10900, Thailand
Tel: +662 937 4600 Fax: +662 937 0144

This Report was prepared by Nexant, Inc ("Nexant") and is part of the ChemSystems Online® suite. Except where specifically stated otherwise in this Report, the information contained herein is prepared on the basis of information that is publicly available, and contains no confidential third party technical information to the best knowledge of Nexant. Aforesaid information has not been independently verified or otherwise examined to determine its accuracy, completeness or financial feasibility. Neither NEXANT, Subscriber nor any person acting on behalf of either assumes any liabilities with respect to the use of or for damages resulting from the use of any information contained in this Report. Nexant does not represent or warrant that any assumed conditions will come to pass.

The Report is submitted on the understanding that the Subscriber will maintain the contents confidential except for the Subscriber's internal use. The Report should not be reproduced, distributed or used without first obtaining prior written consent by Nexant. Each Subscriber agrees to use reasonable effort to protect the confidential nature of the Report.

Copyright © by Nexant Inc. 2009. All rights reserved.

Contents

Section	Page
1 Executive Summary	1
2 Crude Oil, Refining and Petrochemical Feedstocks	6
2.1 CRUDE OIL AND REFINING	6
3 Olefins	9
3.1 ETHYLENE AND PROPYLENE	9
4 Polyolefins	16
4.1 LOW DENSITY POLYETHYLENE (LDPE)	16
4.2 LINEAR LOW DENSITY POLYETHYLENE (LLDPE)	21
4.3 HIGH DENSITY POLYETHYLENE (HDPE)	26
4.4 POLYPROPYLENE (PP)	31
5 Vinyls	36
5.1 VINYL CHLORIDE MONOMER (VCM)	36
5.2 POLYVINYL CHLORIDE (PVC)	41
6 Aromatics	46
6.1 BENZENE, TOLUENE AND XYLENES	46
7 Styrenics	64
7.1 STYRENE	64
7.2 POLYSTYRENE	69
8 Polyester and Intermediates	74
8.1 MONO ETHYLENE GLYCOL (MEG)	74
8.2 <i>PARA</i> -XYLENE (PX)	79
9 Propylene Derivatives	88
9.1 ACRYLONITRILE (ACN)	88
10 Competitive Regional Economics	93
 Appendix	 Page
A Prices	98