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Process Economics Program Review 2017-05

February 2017

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Bimodal HDPE Production by a Gas-Phase Process Similar to LyondellBasell's *Hyperzone*[™] Process

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Handbook of Industrial Polyethylene and Technology Mark A. Spalding, Ananda Chatterjee, 2017-10-26 This handbook provides an exhaustive description of polyethylene The 50 chapters are written by some of the most experienced and prominent authors in the field providing a truly unique view of polyethylene The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene high density polyethylene copolymers and polyethylene produced from metallocene catalysts With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing fillers processing aids anti fogging agents pigments and flame retardants Common processing methods including extrusion blown film cast film injection molding and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding fiber processing pipe extrusion reactive extrusion wire and cable and foaming processes The business of polyethylene including markets world capacity and future prospects are detailed This handbook provides the most current and complete technology assessments and business practices for polyethylene resins **HDPE**

Production via Gas-Phase Process - Cost Analysis - HDPE E12A Intratec, 2016-05-01 This report presents a cost analysis of High Density Polyethylene HDPE bimodal production from polymer grade PG ethylene and 1 butene using a gas phase process The process examined is similar to Univation UNIPOL process This report examines one time costs associated with the construction of a United States based plant and the continuing costs associated with the daily operation of such a plant More specifically it discusses Capital Investment broken down by Total fixed capital required divided in production unit ISBL infrastructure OSBL and contingency Alternative perspective on the total fixed capital divided in direct costs indirect costs and contingency Working capital and costs incurred during industrial plant commissioning and start up Production cost broken down by Manufacturing variable costs raw materials utilities Manufacturing fixed costs maintenance costs operating charges plant overhead local taxes and insurance Depreciation and corporate overhead costs Raw materials consumption products generation and labor requirements Process block flow diagram and description of industrial site installations production unit and infrastructure Keywords Ethene PE Butylene Copolymer **HDPE Production via Slurry Loop Process - Cost Analysis - HDPE E22A** Intratec, 2019-09-17 This report presents a cost analysis of High Density Polyethylene HDPE bimodal production from polymer grade PG ethylene and 1 hexene using a slurry loop process The process described is similar to Chevron Phillips MarTECH Advanced Dual Loop ADL technology and INEOS Innovene S processes In this study the polymerization reaction yielding bimodal HDPE is carried out in a dual loop reactor This report was developed based essentially on the following reference s 1 US Patent 9340629 issued to Chevron in 2016 2 US Patent 7629421 issued to

Chevron in 2009 Keywords Ethene PE Loop Reactor Slurry Reactor Copolymer **HDPE Production via Slurry Process - Cost Analysis - HDPE E11A** Intratec,2016-05-01 This report presents a cost analysis of High Density Polyethylene HDPE bimodal production from polymer grade PG ethylene and 1 butene using a slurry process The process examined is similar to LyondellBasell Hostalen process This report examines one time costs associated with the construction of a United States based plant and the continuing costs associated with the daily operation of such a plant More specifically it discusses Capital Investment broken down by Total fixed capital required divided in production unit ISBL infrastructure OSBL and contingency Alternative perspective on the total fixed capital divided in direct costs indirect costs and contingency Working capital and costs incurred during industrial plant commissioning and start up Production cost broken down by Manufacturing variable costs raw materials utilities Manufacturing fixed costs maintenance costs operating charges plant overhead local taxes and insurance Depreciation and corporate overhead costs Raw materials consumption products generation and labor requirements Process block flow diagram and description of industrial site installations production unit and infrastructure This report was developed based essentially on the following reference s LyondellBasell Licensed Polyolefin Technologies and Services Hostalen Keywords Ethene Bimodal Multimodal CSTR Advanced Cascade Process ACP Butylene **HDPE Production via Slurry Loop Process - Cost Analysis - HDPE E13A** Intratec,2016-05-01 This report presents a cost analysis of High Density Polyethylene HDPE bimodal production from polymer grade PG ethylene and 1 butene using a slurry loop process The process examined is similar to Borealis BORSTAR process This process is based on a dual reactor system slurry and gas phase reactors to produce HDPE bimodal polymer This report examines one time costs associated with the construction of a United States based plant and the continuing costs associated with the daily operation of such a plant More specifically it discusses Capital Investment broken down by Total fixed capital required divided in production unit ISBL infrastructure OSBL and contingency Alternative perspective on the total fixed capital divided in direct costs indirect costs and contingency Working capital and costs incurred during industrial plant commissioning and start up Production cost broken down by Manufacturing variable costs raw materials utilities Manufacturing fixed costs maintenance costs operating charges plant overhead local taxes and insurance Depreciation and corporate overhead costs Raw materials consumption products generation and labor requirements Process block flow diagram and description of industrial site installations production unit and infrastructure Keywords Ethene PE Butylene Loop Reactor Slurry Reactor Gas Reactor Copolymer

HDPE Production via Gas-Phase Process - Cost Analysis - HDPE E21A Intratec,2019-09-17 This report presents a cost analysis of High Density Polyethylene HDPE bimodal production from polymer grade PG ethylene and 1 hexene using a gas phase process The process examined is similar to LyondellBasell Spherilene process This report was developed based essentially on the following reference s 1 LyondellBasell Licensed Polyolefin Technologies and Services Spherilene 2 Polyethylene Ullmann s Encyclopedia of Industrial Chemistry 2011 Keywords Ethene Bimodal Fluidized Bed **HDPE**

Production via Gas-Phase Process - Cost Analysis - HDPE E14A Intratec,2019-09-17 This report presents a cost analysis of High Density Polyethylene HDPE bimodal production from polymer grade PG ethylene and 1 butene using a gas phase process The process examined is similar to LyondellBasell Spherilene process This report was developed based essentially on the following reference s Keywords Ethene PE Fluidized Bed Butylene Polyethylene Yury V. Kissin,2020-09-07 This book provides a necessary bridge between the values of engineering end use parameters of polyethylene resins and their scientific molecular and structural characteristics The main goal is to translate such common parameters such as the melt index of a resin or the dart impact strength of a film sample into the universal language of polymer science After this translation is completed many facets of the resin properties become transparent and easily explainable The second edition is brought up to date with coverage of new types of catalysts and polymerization processes and a new section on PE recycling The chapter on melt indexes is modified and simplified that on stress cracking has a significant update and a new chapter on the nature of LLDPE extractables is added Contents Educational Minimum Manufacture Structure and Mechanical Properties of Polyethylene Resins Melt Index and Melt Flow Ratio of Polyethylene Resin Melting Point of Polyethylene Resin Crystallinity Degree and Density of Polyethylene Resins End Use Mechanical Properties of Polyethylene Film End Use Testing of High Molecular Weight HDPE and MDPE Resins Nature of LLDPE Extractables Polyethylene Yury V. Kissin,2020-09 This book provides a necessary bridge between the values of engineering end use parameters of polyethylene resins and their scientific molecular and structural characteristics The main goal is to translate such common parameters such as the melt index of a resin or the dart impact strength of a film sample into the universal language of polymer science After this translation is completed many facets of the resin properties become transparent and easily explainable The second edition is brought up to date with coverage of new types of catalysts and polymerization processes and a new section on PE recycling The chapter on melt indexes is modified and simplified that on stress cracking has a significant update and a new chapter on the nature of LLDPE extractables is added *HDPE Production via Slurry Loop Process - Cost Analysis - HDPE E31A* Intratec,2016-03-01 This report presents a cost analysis of Homopolymer High Density Polyethylene HDPE production starting from polymer grade PG ethylene using a slurry loop process The process described is a slurry loop reactor process similar to Chevron Phillips CPChem and INEOS Innovene S In this study it is considered a single loop reactor polymerization for production of homopolymer HDPE This report examines one time costs associated with the construction of a United States based plant and the continuing costs associated with the daily operation of such a plant More specifically it discusses Capital Investment broken down by Total fixed capital required divided in production unit ISBL infrastructure OSBL and contingency Alternative perspective on the total fixed capital divided in direct costs indirect costs and contingency Working capital and costs incurred during industrial plant commissioning and start up Production cost broken down by Manufacturing variable costs raw materials utilities Manufacturing fixed costs maintenance costs operating charges plant overhead local taxes and

insurance Depreciation and corporate overhead costs Raw materials consumption products generation and labor requirements Process block flow diagram and description of industrial site installations production unit and infrastructure This report was developed based essentially on the following references US Patent 20140256889A1 issued to Chevron Phillips Chemical Company Keywords Ethene PE Loop Reactor Slurry Reactor Homopolymer Practical Guide to Polyethylene Cornelia Vasile, Mihaela Pascu, 2005 This practical guide begins with general background to the polyethylene family with price production and market share information It describes the basic types of polyethylene including virgin and filled polyethylene copolymers block and graft polymers and composites and reviews the types of additives used in polyethylene It gives the low down on the properties including amongst others rheological mechanical chemical thermal and electrical properties It goes on to describe the processing issues and conditions for the wide range of techniques used for polyethylene and also considers post processing and assembly issues It offers guidance on product design and development issues including materials selection It is an indispensable resource for everyone working with this material *Handbook of Polyethylene* Andrew Peacock, 2000-01-20 This text provides the basic history molecular structure and intrinsic properties practical applications and future developments of polyethylene production and marketing including recycling systems and metallocene technology It describes commercial processing techniques used to convert raw polyethylene to finished products emphasizing special **Chemical Resistance and Permeability Data** Shell Chemical Company, 1967 **Handbook of Industrial Polyethylene and Technology** Mark A. Spalding, Ananda Chatterjee, 2017-10-12 This handbook provides an exhaustive description of polyethylene The 50 chapters are written by some of the most experienced and prominent authors in the field providing a truly unique view of polyethylene The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene high density polyethylene copolymers and polyethylene produced from metallocene catalysts With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing fillers processing aids anti fogging agents pigments and flame retardants Common processing methods including extrusion blown film cast film injection molding and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding fiber processing pipe extrusion reactive extrusion wire and cable and foaming processes The business of polyethylene including markets world capacity and future prospects are detailed This handbook provides the most current and complete technology assessments and business practices for polyethylene resins *Polyethylene* Y. V. Kissin, 2013 This book provides a necessary bridge between the values of engineering end use parameters of polyethylene resins and their scientific molecular and structural characteristics The main goal is to translate such common parameters such as the melt

index of a resin or the dart impact strength of a film sample into the universal language of the polymer science After this translation is completed many facets of the resin properties became transparent and easily explainable *Business and Technology of the Global Polyethylene Industry* Thomas E. Nowlin, 2014-10-06 The history of the business and technology that was responsible for the enormous growth of the global polyethylene industry from the laboratory discovery in 1933 to reach an annual production of over 75 million metric tons in 2012 and become the leading plastic material worldwide This book is an in depth look at the history of the scientists and engineers that created the catalysts and the methods used for the modern commercial manufacture of polyethylene and its products The book outlines the processes used for the manufacture of polyethylene are reviewed which include the high pressure process and the three low pressure processes slurry solution and the gas phase methods The techniques used to fabricate polyethylene into end use products are reviewed with a discussion of blow molding injection molding rotational molding blown film cast film and thermoforming are also discussed in detail

Analysis of the Thermo-chemical Stability of Ultra High Molecular Weight Polyethylene Using Isothermal Microcalorimetry William Andrew Hardison, 2002 *HDPE Production via Solution Process - Cost Analysis - HDPE E34A* Intratec, 2019-09-17 This report presents a cost analysis of High Density Polyethylene HDPE production from polymer grade PG ethylene using a solution process The process examined is similar to NOVA Chemicals Advanced SCLAIRTECH process This report was developed based essentially on the following references 1 US Patent 6319996 issued to Nova Chemical in 2001 2 US Patent 6642313 issued to Nova Chemical in 2003 Keywords Ethene PE Homopolymer

Working with Polyethylene Bill Fry, 1999 Illustrated with diagrams and property charts this booklet introduces the non scientist to the mainstream world of vinyl plastics manufacturing It provides information on the vinyl plastic family s chemical composition product applications physical properties and common trade names It also includes a glossary of terms

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