



Sinopec Hainan to use LyondellBasell's Hostalen ACP Technology

May 26, 2020

ROTTERDAM, the Netherlands, May 26, 2020 – LyondellBasell (NYSE: LYB), the world's largest licensor of polyolefin technologies, today announced that Sinopec Hainan Refining & Chemical Co., LTD. (Sinopec) will use the LyondellBasell *Hostalen* "Advanced Cascade Process" (*Hostalen* ACP) technology for a new facility.

The process technology will be used for a 300 KTA high density polyethylene (HDPE) facility to be built in Yangpu, Hainan Province, P.R. China.

"Multi-modal HDPE resins play a key role in addressing the growing demand for higher value polyethylene products," said Neil Nadalin, Director of Licensing at LyondellBasell. Nadalin added: "The *Hostalen* ACP process is the leading low-pressure technology to deliver those benchmark polymer products."

With these new capacity additions, LyondellBasell has licensed over 8500 KTA of benchmark multi-modal HDPE resins.

The *Hostalen* ACP low-pressure slurry process technology manufactures high performance, multi-modal HDPE resins with an increased stiffness/toughness balance, impact resistance and high stress-cracking resistance used in pressure pipe, film and blow-molding applications.

The Sinopec Hainan HDPE plant will commence operations using *Avant* Z501 and *Avant* Z509 catalysts to produce a full range of multi-modal HDPE products.

New licensees can take advantage of LyondellBasell's in-house expertise of continuous process, operating and product improvements by optionally joining our Technical Service program.

In addition to the *Hostalen* ACP process technology, LyondellBasell's portfolio of licensed polyolefin processes and catalysts includes:

- *Spheripol* – The leading PP process technology with more than 27 million tons of licensed capacity with globally recognized quality grades with leading monomer consumption and investment costs to make it the technology of choice
- *Spherizone* – The breakthrough multi-zone circulating reactor provides a unique and innovative platform to manufacture polypropylene products with novel architecture and enhanced properties
- *Lupotech* – The market leader on high pressure technology offers, with its high conversion rates and effective heat recovery system, the lowest operating and investment costs for the production of low density polyethylene (LDPE) and ethylene vinyl acetate (EVA) copolymers
- *Spherilene* – Flexible gas phase process technology for the production of LLDPE, MDPE and HDPE
- *Metocene PP* – Innovative add-on technology for the production of specialty polypropylene products using single-site catalyst systems
- *Avant* – Advanced Ziegler-Natta, including non-phthalate, chromium and metallocene catalysts for entire range of



packaging, protecting the purity of water supplies through stronger and more versatile pipes, improving the safety, comfort and fuel efficiency of many of the cars and trucks on the road, and ensuring the safe and effective functionality in electronics and appliances. LyondellBasell sells products into more than 100 countries and is the world's largest producer of polymer compounds and the largest licensor of polyolefin technologies. In 2020, LyondellBasell was named to Fortune magazine's list of the "World's Most Admired Companies." More information about LyondellBasell can be found at www.LyondellBasell.com. SOURCE: LyondellBasell

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