

PEP Review 2011-15
POLYPROPYLENE BY LYONDELLBASELL'S SPHERIPOL PROCESS

By
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ABSTRACT

LyondellBasell's Spheripol process is the most widely used process to produce polypropylene. More than 22 million tons of Spheripol process capacity has been licensed worldwide. The Spheripol process is a bulk slurry process. The most typical Spheripol configuration used is two slurry loop reactors in series to form propylene homopolymer or random copolymer and at least one downstream gas-phase reactor to produce propylene heterophasic impact copolymer. In this review, the process economics for Spheripol process were updated. The evaluation was based on a single-line plant capacity of 400,000 mta propylene impact copolymer.



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Menlo Park, California 94025



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