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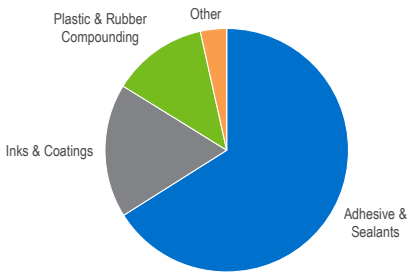
PERP 2016S5 - Hydrocarbon Resins

"Hydrocarbon Resins" is one in a series of reports published as part of the 2016 Process Evaluation/Research Planning (PERP) Program.

Report Overview

Hydrocarbon resins are amorphous polymers with low to medium molecular weights that exhibit tack (or "stickiness"), which makes them particularly useful not only in adhesive applications but also in sealants, coatings, rubber tires, floor tiles and in the foundry/ ceramic textile industries. Major producers of hydrocarbon resins, such as Eastman and ExxonMobil, have continued to build new production facilities in Asia as a result of growing market demand in the region, coupled with the availability of C_5 and C_9 feed streams derived from naphtha cracking.

GLOBAL DEMAND FOR SYNTHETIC PETROLEUM HYDROCARBON RESINS BY END USE



This PERP report provides an up-to-date overview of the market, economic, and technological aspects of the hydrocarbon resins sector, including synthetic petroleum hydrocarbon resins (C_5, C_9, waterwhite and polyterpenes) and natural hydrocarbon resins (rosin). The following issues are addressed in the report:

- What is the current market environment for hydrocarbon resins? What are the types of hydrocarbon resins and their respective end-uses?
- Who owns and what is the capacity of hydrocarbon resin plants operating in major regions of the world today?
- What are the major processes for making hydrocarbon resins, and how do they differ?
- How do the process economics compare for the various hydrocarbon resins in different geographic regions?

Commercial and Developing Technologies

The hydrocarbon resin process is based on the polymerization of aliphatic or aromatic hydrocarbon streams that can be sourced from synthetic sources such as petroleum or coal and natural sources such as pine trees. Although the core process is common to all technology holders, significant technical expertise is required in order to optimize the process to the wide range of feedstock compositions.

This PERP report covers technologies for aliphatic, aromatic, DCPD, waterwhite, polyterpene resins and rosin resins.

Process Economics

Detailed cost of production estimates for different geographic regions are presented for:

- Aliphatic Resins
- Aromatic Resins
- Mixed C_5/C_9 Resins
- DCPD Resins
- Hydrogenated Resins
- Pure Monomer Resins
- Polyterpene Resins
- Rosin Resins

Commercial Market Review

Global demand for synthetic hydrocarbon resins including waterwhite (WW) resins is estimated at approximately 2.2 million tons. This PERP report highlights the historical and projected supply, demand and trade of synthetic petroleum hydrocarbon resins and waterwhite resins on a global and regional basis. A list of key producers in each region is also provided.

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