INEOS STYROLUTION

FACT SHEET

INEOS STYROLUTION'S K-RESIN® IN HEALTHCARE

On March 1, 2017, INEOS Styrolution announced the completion of the acquisition of the global K-Resin® business of Chevron Phillips Chemical Company LLC and Daelim Industrial Co. Ltd.

With this acquisition, the INEOS Styrolution SBC portfolio now includes three brands: K-Resin, Styrolux® and Styroflex®. Together, they are a perfect selection of SBC specialty grades for customers in a broad and dynamic industry like healthcare.

As a premier clear resin, K-Resin is known for its unique blend of sparkling clarity, impact toughness, stiffness and exceptional gloss. K-Resin is used in various healthcare applications and medical components for more than 40 years.

Historically, among the transparent polymers used in large volumes there has been a broad gap between the low cost resins, such as polystyrene, polyethylene and polypropylene, which are either clear or tough, but not both, and the higher priced resins, such as polycarbonate and cellulosics, which are both clear and tough. A part of this gap has been filled by clear, tough K-Resin. K-Resin is well-suited for medical applications for a number of reasons. Many medical devices must be clear enough to determine the nature, amount or condition of their contents during use, but tough enough to resist accidental breakage – particularly during those critical moments of an emergency. For that matter, routine breakage can be expensive, time consuming and hazardous. Similarly, clear packages allow accurate identification of contents and their condition. Packages composed of K-Resin are tough enough to protect their contents but can be designed to open easily. For the medical application designer, K-Resin is easily and economically processed using conventional processing techniques. Recommended processing temperatures are lower than for many transparent resins while handling, storage, and processing requirements are comparatively straightforward.

Two important characteristics of K-Resin are its crystal clarity and exceptional shatter resistance. In addition to this excellent clarity and impact strength, K-Resin is easy to process, provides for design versatility, has the thermal stability required to permit recycling of scrap, and has the necessary physical properties for a broad spectrum of applications. More importantly, grades of K-Resin which were tested for biological performance meet U.S. Pharmacopoeia (USP) XXIII Class VI requirements, are compatible with blood, demonstrate no cytotoxic, mutagenic or irritant potential, are not sensitizers, and are sterilizable by gamma irradiation, ethylene oxide gas or electron beam irradiation.

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