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## **Tygon® LP-1200: Optimizing fuel system compatibility and all-weather flexibility**

By Lily Lei

For all gasoline powered equipment manufacturers, the most important area in design is how to make the fuel system perform efficiently and powerfully to meet the expectations of the end users. What makes the equipment work well depends completely on the performance of each component of the fuel system.

Fuel tubing or hoses, although small pieces of the overall system when compared to other components, are nevertheless one of the key elements in powering the entire tool. They connect the fuel tank and carburetor to the engine, transferring the needed fuel to deliver the intended operation. The tubing's compatibility to fuel and chemical additives, flexibility in all weather conditions as well as regulatory compliance, are all critically important to ensure the tools deliver the manufacturers' brand promise and builds their brand equity.

[Tygon® LP-1200](#) from Saint-Gobain Performance Plastics is designed specifically to meet those challenges. EPA and CARB certified tubing has a barrier layer to achieve the low permeation standards of 15g/M2/day to reduce evaporative emissions, thus playing a critical role in minimizing the environmental impact of spark-ignition power equipment such as chainsaws, trimmers, and leaf blowers.

Tygon® LP-1200 is engineered to meet the demanding requirements of handheld power equipment applications. LP-1200 is chemical resistant to ethanol blend fuels and fuel additives and its non-filler fluoropolymer inner core ensures clean fuel transfer to eliminate the risk of filler extractable commonly seen in rubber fuel hose. This fuel tubing is very flexible, allowing sufficient fuel pick-up regardless of tool orientation during operation and weather conditions.

Tygon® LP-1200 has been extensively tested to deliver the desired performance for handheld gasoline tools. The robust testing data has brought peace of mind for many handheld equipment manufacturers which rely on Tygon® LP-1200 to deliver their brand promise to customers. Please click [here](#) for more information on Tygon® LP-1200.

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### **About Saint-Gobain**

*Saint-Gobain designs, manufactures and distributes materials and solutions which are key ingredients in the wellbeing of each of us and the future of all. They can be found everywhere in our living places and our daily life: in buildings, transportation, infrastructure and in many industrial applications. They provide comfort, performance and safety while addressing the challenges of sustainable construction, resource efficiency and climate change. With 2016 sales of more than \$43 billion, Saint-Gobain operates in 67 countries and has more than 172,000 employees.*

*Saint-Gobain's Performance Plastics business is headquartered in Solon, Ohio, and employs 6,000 people in 22 countries. It is a world leader in high-performance plastics, including flexible tubing, seals, coated fabrics, foams, window film, barrier/release films, tapes, medical components, fluid handling systems and bearings.*

*Saint-Gobain's Process Systems business unit helps customers achieve safety, performance and brand assurance through a broad range of capabilities that rely on superior engineering and customer support. Our product applications include those in the food, beverage, habitat, aerospace, chemical and electronics sectors. We've helped customers in all of these industries achieve goals in innovation, efficiency, sustainability and product integrity through customized solutions such as flexible tubing, gaskets, seals, hoses, fittings, pumps, valves and manifolds.*

