

Axel's Semi-Permanent Mold Release Reduces Downtime and Scrap Rates
In Polyisoprene/SBR Molding

Woodside, New York – XTEND™ W-7283, a water-based semi-permanent mold release from Axel Plastics Research Laboratories, Inc., Woodside, NY has helped to reduce downtime from mold cleaning and to decrease scrap rates in molding polyisoprene/SBR blends.

Nancy Teufel, Technical Support Manager for AXEL, reports, “Buildup on molds and poor release has been particularly prevalent in molding these rubber compounds, resulting in excessive downtime for cleaning and high scrap rates from parts that are damaged in de-molding.”

A molder of an elastomeric automotive aftermarket parts, molds polyisoprene/SBR blends with durometers ranging from 20-50 on the shore A scale. Molding processes for these compounds include mandrel wrapping, compression and injection. Parts frequently release poorly, contributing to buildup on molds and high scrap rates.

XTEND W-7283, a water-based semi-permanent mold release was tested in each of the molding processes: mandrel wrapping, compression and injection. In all cases, the parts released easily and had a consistent surface gloss. In the injection molding application, a 12 cavity steel mold running a 3-minute cycle at 350° to produce wiper blades, was able to run 105 cycles with a single application of W-7283 – a fivefold improvement. In the other molding processes, parts released more easily from the tools and required fewer re-applications of mold release; downtime related to mold cleaning was reduced 40% when XTEND W-7283 was used.

XTEND W-7283 is an aqueous emulsion of proprietary resins and crosslinkers with various surfactants that forms a uniform cured film on drying. The low viscosity non-flammable liquid can be sprayed or wiped on molds, and is ideal for hot molding applications.

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Axel's Semi-Permanent Mold Release Reduces ... cont'd

XTEND W-7283 is just one of the many semi-permanent mold releases manufactured by AXEL. The 63-year-old manufacturer of proprietary mold releases and process aid additives is an ISO 9001 registered company. All of AXEL's products are formulated from raw materials that comply with the chemical substance inventory lists of TOSCA, DSL, MITI, EINECS, Australia and Korea. Customers are served both through direct sales and by a network of 32 stockings distributors located in 25 countries around the globe. AXEL encourages requests for evaluation samples by visiting the company's web site at: <http://www.axelplastics.com>.

For further information, technical data sheets or for the name of a representative in your area, please contact **Nancy Teufel at AXEL, Box 77 0855, Woodside, NY 11377 (USA), toll free 800-332-AXEL (2935) or 718-672-8300, email: info@axelplast.com.**

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Photo Caption:

XTEND W-7283, a water based semi-permanent mold release has proven beneficial when used in the polyisoprene / SBR molding processes – mandrel wrapping, compression and injection – to enhance product surface gloss while reducing downtime and scrap rates; available from Axel Plastics Research Laboratories, Inc., USA.