

The next generation of polyurethane technology has arrived.

Pluracol® 2029/1 Polyol

An improved high ethylene oxide polyether polyol for flexible foams.

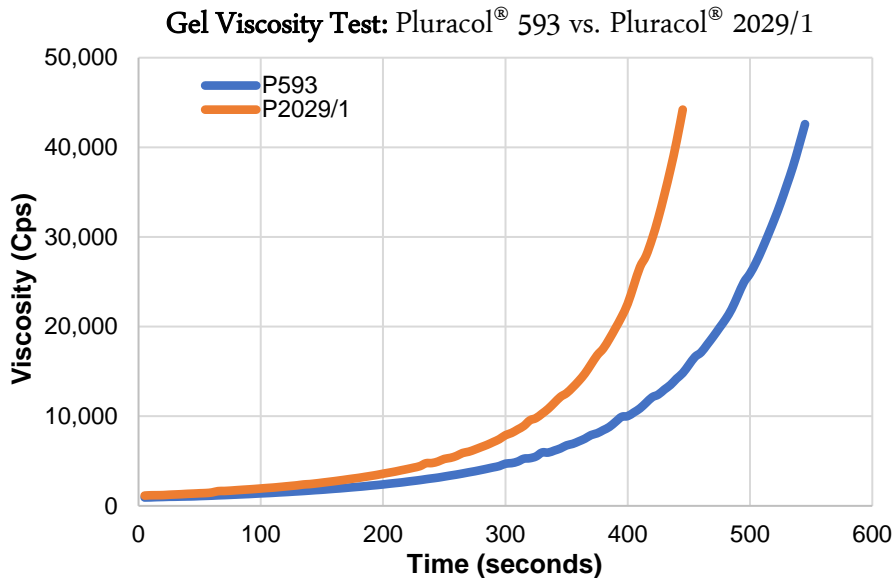
Improved Operational Efficiencies

Softer foam formulations can cause production challenges on foam lines during the latter part of the manufacturing process. Specifically, HyperSoft™ foam formulations, known for their low densities and soft feel, can exhibit poor green strength and slow cure times coming off production lines. This can lead to foam buns adhering to conveyer lines and causing delays in the production process. In addition, softer formulations can require additional operator involvement during processing. De-mold times for molded applications with similar softer foam formulations are also critical for the production process. A faster cure time in soft foam formulations can allow for easier handling of slab foam buns and improve operational efficiency in molded foam applications. Pluracol® 2029/1 polyol was developed for flexible foam formulations where BASF's Pluracol® 593 polyol is currently used.

Performance Advantages of Pluracol® 2029/1 Polyol

Pluracol® 2029/1 polyol is a true drop-in for formulations where Pluracol® 593 polyol is being used. No formulation adjustments or changes are required. The images below show HyperSoft™ foam formulations run on BASF's pilot-scale slab foam line. The picture clearly demonstrates the advantage of improved bun handling and green strength Pluracol® 2029/1 polyol provides in identical foam formulations.





Pluracol® 2029/1 polyol's higher functionality improves cure time in polyurethane formulations by upwards of 20% compared to Pluracol® 593 polyol in identical formulations as shown in the figure above. Additionally, Pluracol® 2029/1 polyol has shown improved performance in hardness and airflow tests for the finished flexible foams. Pluracol® 2029/1 may be used in a variety of flexible foams ranging from HyperSoft™ and viscoelastic foams, as well as in any foam requiring cell-opening capabilities.

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