

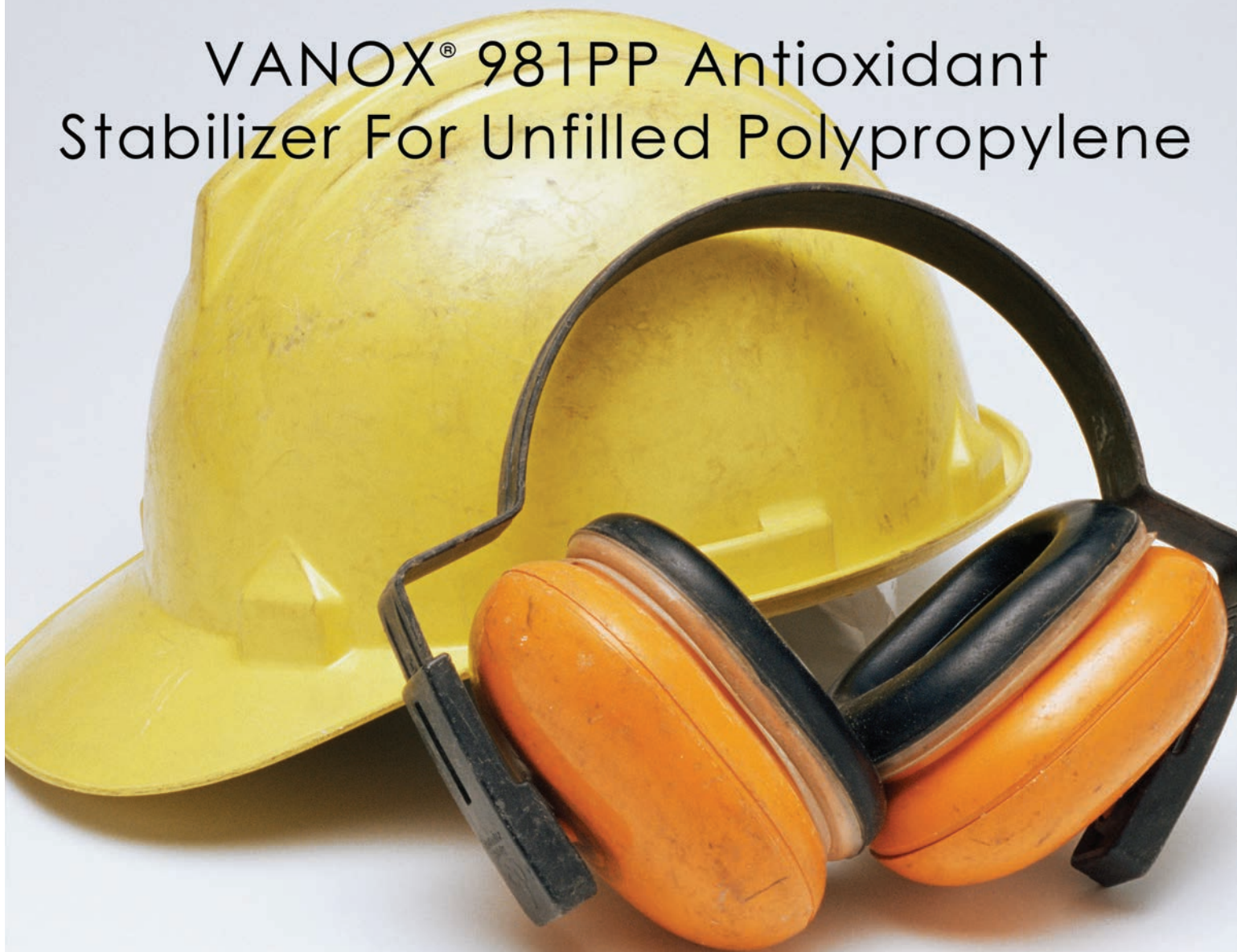


Distributed in the Interest
of Product Development

VANDERBILT

Chemicals Technical Data

VANOX[®] 981PP Antioxidant Stabilizer For Unfilled Polypropylene



Vanderbilt Chemicals, LLC, 30 Winfield Street, P.O. Box 5150, Norwalk, CT 06856-5150
Telephone: (203) 853-1400 - Fax: (203) 853-1452 - Web Site: vanderbiltchemicals.com

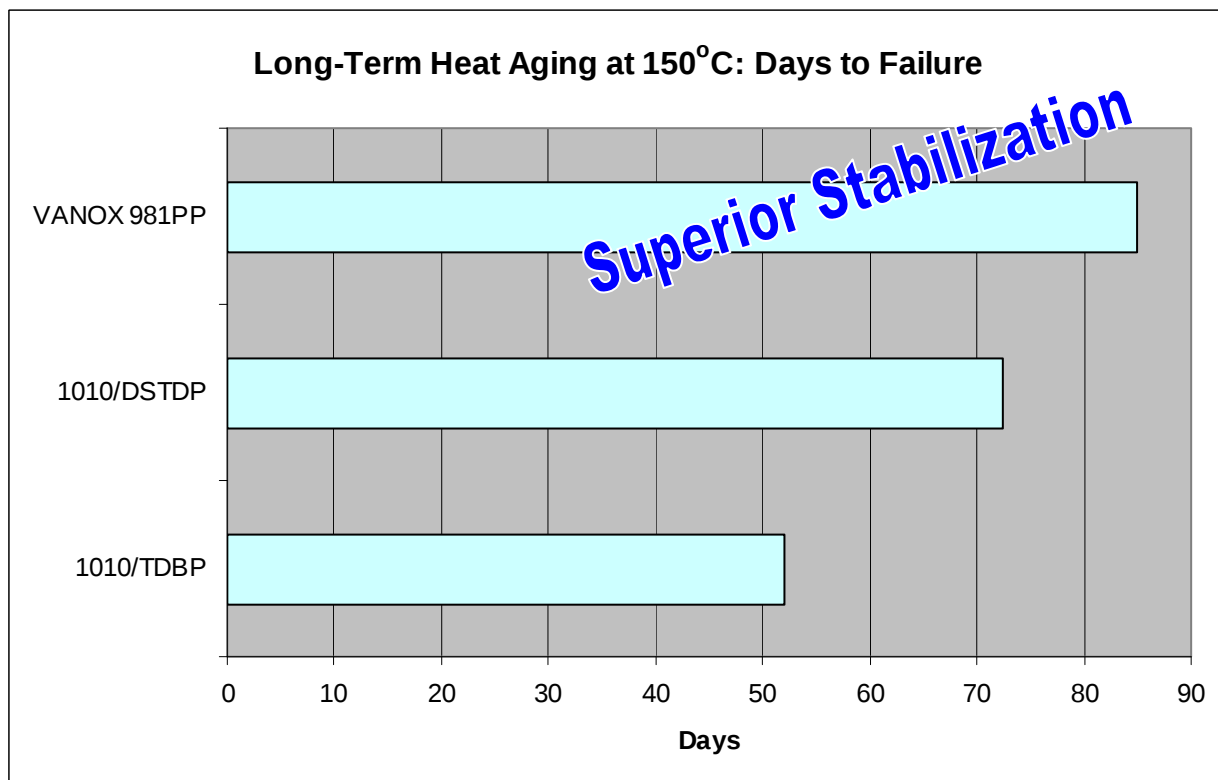
Before using, read, understand and comply with the information and precautions in the Safety Data Sheets, label and other product literature. The information presented herein, while not guaranteed, was prepared by technical personnel and, to the best of our knowledge and belief, is true and accurate as of the date hereof. No warranty, representation or guarantee, express or implied, is made regarding accuracy, performance, stability, reliability or use. This information is not intended to be all-inclusive, because the manner and conditions of use, handling, storage and other factors may involve other or additional safety or performance considerations. The user is responsible for determining the suitability of any material for a specific purpose and for adopting such safety precautions as may be required. Vanderbilt Chemicals, LLC does not warrant the results to be obtained in using any material, and disclaims all liability with respect to the use, handling or further processing of any such material. No suggestion for use is intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patent, trademark or copyright or to violate any federal, state or local law or regulation.

VANOX[®] 981PP Antioxidant

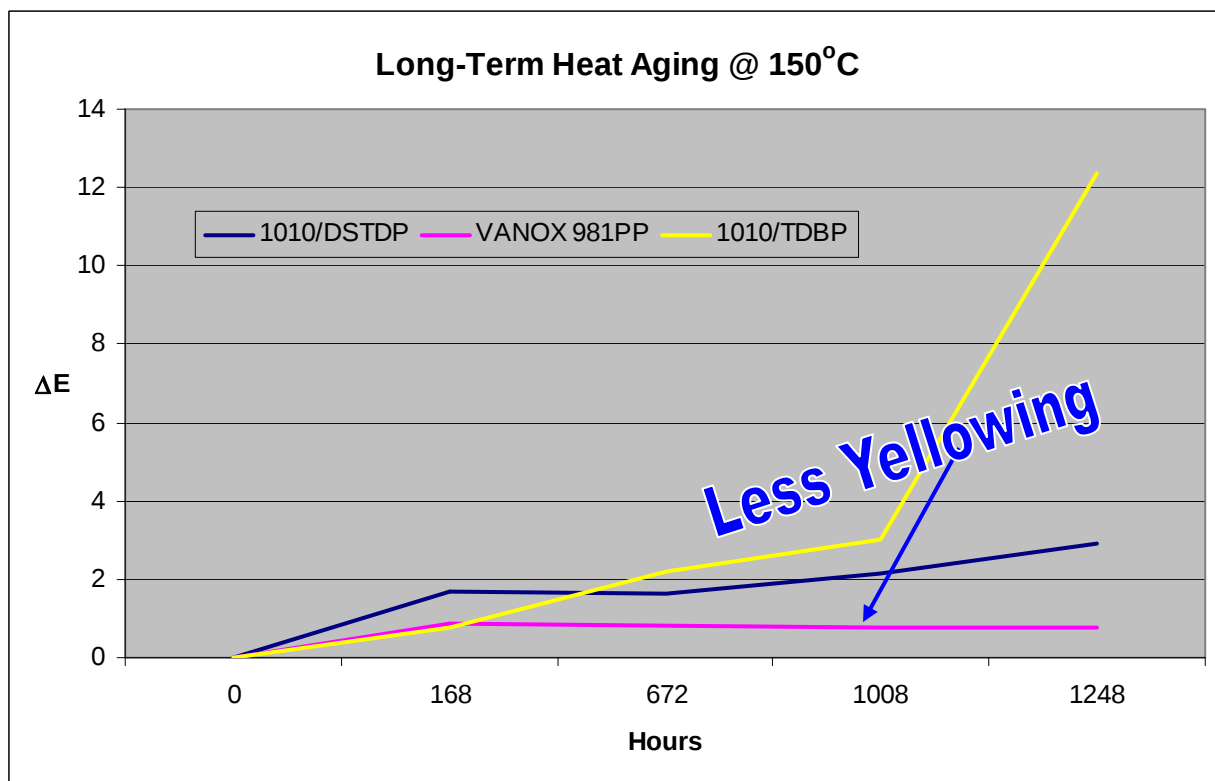
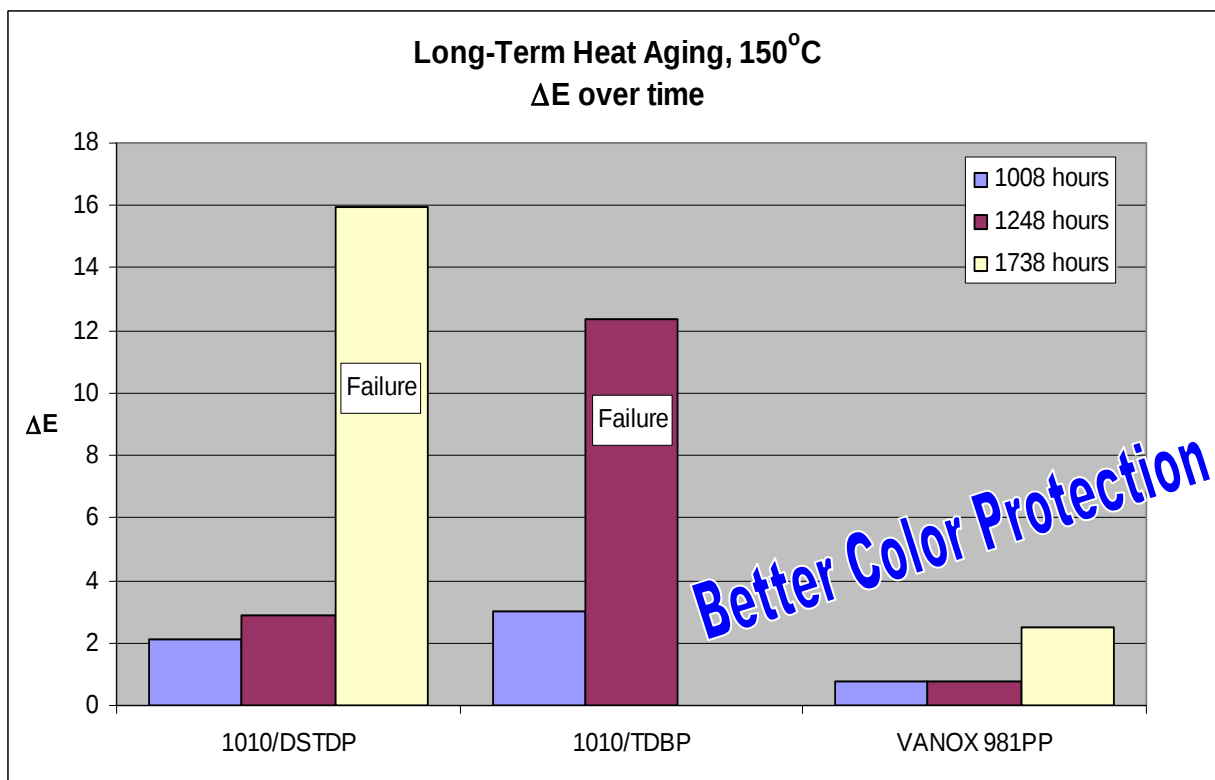
Stabilizer for Unfilled Polypropylene

Color stability is a key property of plastic products, since no one wants to buy a product that discolors over time. Vanderbilt Chemicals, LLC has developed a novel stabilizer that greatly increases the color stability of thin film polypropylene materials. **VANOX 981PP** antioxidant is a patent pending blend that protects the color and extends the useful shelf life of the plastic product. As a powder, it allows for easier compounding.

VANOX 981PP antioxidant is able to increase the useful shelf life of a polypropylene product by delaying the part's failure longer than 1010/DSTDP or 1010/TDBP.*



VANOX 981PP antioxidant offers superior color protection when compared to conventional blends, providing a more consistent product over time.*



* For this study, selected antioxidant blends were added to polypropylene at equal weight loading for a total of 0.4%. Plaques from these compounds were heat-aged in an oven at 150°C until part failure.