

Invitation to Review for the Journal of Industrial Textiles

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dzhang@charter.net

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_Publication

To: Mohamed Eldessouki <eldesmo@tigermail.auburn.edu>;

26-Oct-2014

Dear Dr. Eldessouki:

Manuscript ID JIT-14-0296 entitled "Synthesis and Characterization of Dual-Curable Epoxyacrylates for Polyester Cord/Rubber Applications" has been submitted to the Journal of Industrial Textiles.

The author has recommended you as one of the preferred reviewers. The abstract appears at the end of this letter. Please let me know as soon as possible if you will be able to review the paper. If you are unable to review at this time, I would appreciate you recommending another expert reviewer. You may e-mail me with your reply or click the appropriate link at the bottom of the page to automatically register your reply with our online manuscript submission and review system.

Journal of Industrial Textiles greatly values the work of our reviewers. In recognition of your continued support, we are pleased to announce that we have arranged with our publisher SAGE to offer you free access to all SAGE journals for 60 days upon receipt of your completed review and a 25% book discount on all SAGE books ordered online. We will send you details of how to register for online access and order books at discount as soon as you have submitted your review.

Once you accept the invitation to review this manuscript, you will be notified via e-mail about how to access Manuscript Central, our online manuscript submission and review system. You will then have access to the manuscript and reviewer instructions in your Reviewer Center.

I realize that our expert reviewers greatly contribute to the high standards of the Journal, and I thank you for your present and/or future participation.

Sincerely,
Dr. Dong Zhang
Editor-in-Chief, Journal of Industrial Textiles
dzhang@charter.net

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MANUSCRIPT DETAILS

TITLE: Synthesis and Characterization of Dual-Curable Epoxyacrylates for Polyester Cord/Rubber Applications

ABSTRACT: In this study acrylic acid modified bisphenol-A based epoxy resins having epoxy and acrylate groups at the same structure were prepared and utilized to improve the adhesion strength of polyester cords to rubber. The structures of oligomers were characterized by FT-IR spectroscopy. UV curable coatings were applied onto the polyester cord fabric by dip coating and irradiated. Morphological properties of the UV cured fabric surface have been investigated by scanning electron microscopy (SEM). Thermal behavior of the coatings was also evaluated. In the second stage, UV-cured polyester cords have been adhered onto the rubber by means of heat and pressure. The adhesion strength was evaluated by using peel test as a function of the carboxyl/epoxide ratio.