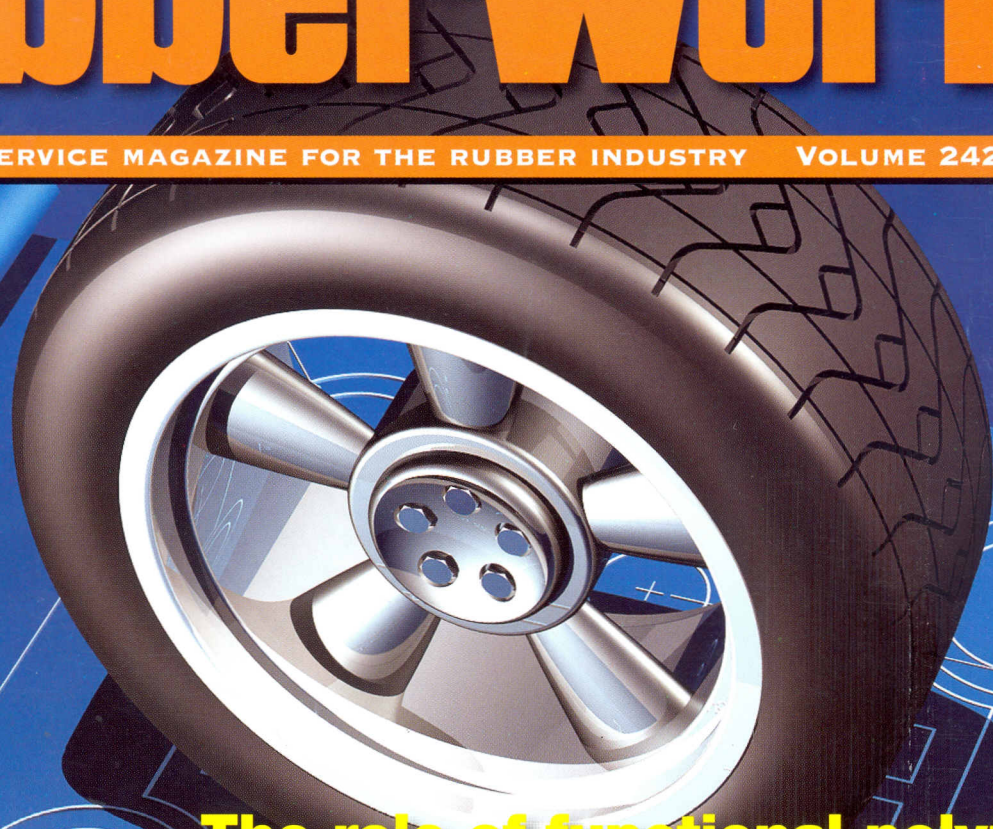


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The role of functional polymers in improving tire performance

Effect of aging on permeability properties of bromobutyl based innerliner compounds

Process development of iron catalyzed 3,4 polyisoprene

Roles of polymers and fillers for tire performance characteristics of tread compounds

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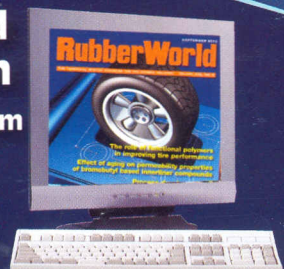
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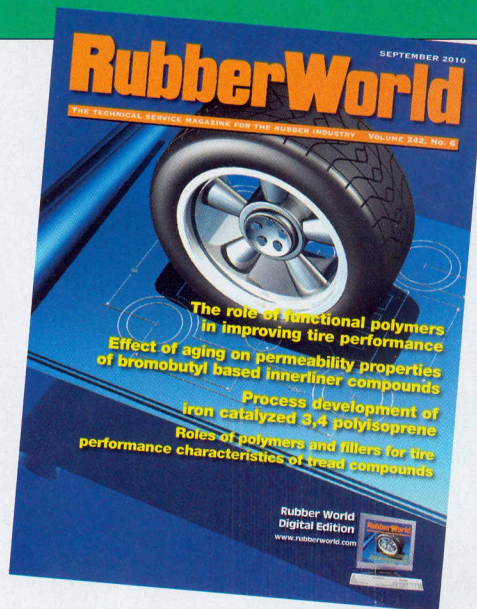
by Shingo Futamura and Kuo-Chih Hua, Goodyear Tire and Rubber. Important roles of polymers and fillers for tire performance characteristics of tread compounds are examined.

22 Aging and permeability of bromobutyl based innerliner compounds

by Brendan Rodgers, Sunny Jacob, Bharat B. Sharma, H. Manjunath and Subendhu Pal, ExxonMobil Chemical. A study concludes that nanocomposites are preferred over bromobutyl rubber compound innerliners.

32 Process development of iron catalyzed 3,4 polyisoprene

by A.F. Halasa, C.C. Chang and W.L. Hsu, Goodyear Tire & Rubber. High Tg 3,4-polyisoprene with acceptable cement viscosity and polymer Tg can be made in a continuous process using 15% isoprene premix.



38 Functional polymers improve tire performance

by Terrence E. Hogan, Amy Randall, William L. Hergenrother and Chenchy J. Lin, Bridgestone Americas. Challenges and benefits of using alkoxy silane functionalized polymers to improve tire performance are discussed.

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