

Abstract Submitted  
for the MAR06 Meeting of  
The American Physical Society

**How Does Rubber Crystallizes Upon Application of Strain<sup>1</sup>** MIN-  
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crystallization of natural and synthetic rubbers is one of the most interesting phe-  
nomena in the field of rubber science and technology. Most of the research in the  
field was done using X-ray diffraction techniques. However up to this day there are  
no reports of direct observation of strain induced crystallization of rubber. This  
presentation reports first atomic force micrographs of high cis polybutadiene rubber  
surface at various strains. The crystallization of the rubber was confirmed by X-ray  
diffraction and crystallite orientation is discussed.

<sup>1</sup>We are thankful to Dr. Jan Genzer and his colleagues for NEXAFS and IR  
experiments

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Date submitted: 11 Jan 2006

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