## Study of the vibration of friction wave on the drawn ${\rm MoS_2}$ -Nylon 6 sheet

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Vibration of friction wave of MoS2-filled nylon 6 sheet under high drawing were studied. Drawing MoS2-filled nylon 6 sheet was made by single-stage uniaxial drawing process. Waves of the friction coefficient were measured on a block-on-ring tester where sliding ocurred at a speed of 0.13m/s under 30lb. The curves of friction coefficient of drawing MoS2-Nylon have a similar tendency with non-drawing MoS2-Nylon and pure nylon. Wave vibration relate to the surface condition and hardness. Because that the rough surface of fretting damage behavior was displayed in drawing MoS2-Nylon sheet. This means that the surface of drawing MoS2-Nylon is more rough and hard than non-drawing MoS2-Nylon but tensile strength of drawing MoS2-Nylon is still better.