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Surface energy of different coatings is determined with new contact adhesion meter. Adhesion and deformation components of friction are discussed. It is shown how

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load, sliding velocity, and temperature affect friction. Different modes of wear of polymers and friction transfer are considered.

Tribology of polymers:
Adhesion, friction, wear,

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and mass ...

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AH Faghihnejad and Hongbo Zeng

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Polymer adhesion, friction,
and lubrication

Some Generic Properties of
Polymer Brushes. Sliding of
High-T g Polymer Brushes:

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The Semidilute to Vitrified
Transition Sliding Mechanism
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Brushes. Compression, Shear,
and Relaxation of Melt
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Brushes in Aqueous Media

Polymer Brushes and Surface
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ADHESION AND FRICTION OF
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Myshkin; ... Alexander V.

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of polymers to solids being one of the dominating factors. The ...

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The adhesion component of friction depends on speed,

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temperature and contact pressure in a manner implying a close correlation with bulk viscoelastic properties. This appears to be reasonably valid for rubbers but less so for thermoplastics. Reasons for

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this are discussed and some of the inadequacies of current theories of polymer friction ...

Friction, Adhesion and Boundary Lubrication of Polymers ...

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Polymers are often used as adhesive and lubricant coatings to produce both high and low adhesion or friction. Characterization of tribological and adhesive properties and dynamics has been of great...

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Adhesion and Friction
Mechanisms of Polymer-on-
Polymer ...

A bead-probe lateral force
microscopy (LFM) technique
is used to characterize the
interfacial friction and

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adhesion properties of polymer brushes. Our measurements attempt to relate the physical structure and chemical characteristics of the brush to their properties as thin-film, tethered lubricants.

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the friction-modified PA6
polymer act as lubricants in
order to minimize the
friction coefficient: oil

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addition is aimed for a fast-delivery lubricating action, while PTFE is responsible for long-duration lubricating effects. As mentioned previously, the steel plates consisted of S1100QL, which is also

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denominated as 1.8942 steel.

Static and Dynamic Friction
of Pure and Friction-
Modified ...

Polymer tribology is a fast
growing area owing to
increasing applications of

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polymers and polymer composites in industry, transportation, and many other areas of economy. Surface forces are very important for polymer contact, but the real origin of such forces has not been

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fully investigated. Strong adhesive interaction between polymers leads to an increase in the friction force, and hence ...

Adhesion and surface forces
in polymer tribology—A

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review ...

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materials science, colloid
and interface science,

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nanotechnology,
bioengineering, and chemical
engineering.

Polymer Adhesion, Friction,
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...

Particularly in the field of

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surface/interface engineering, SI-ATRP as a powerful technique could prepare the surface-grafted polymer brush with switchable physical and chemical properties, such as insulation-conductivity, hyd

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rophilicity-hydrophobicity,
adhesion-antiadhesion,
friction-lubrication, metal-
plastic, etc.

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