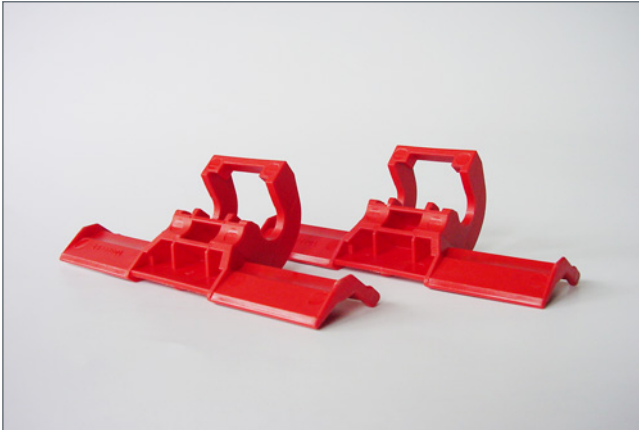


Press information

NYLAFORCE® A 45 TS 13



Yarn guidances for textile machines made of **NYLAFORCE® A 45 TS 13**

High-performance plastics for tribological applications

Technical plastics with high glass fibre reinforcement for tribological applications? Too good to be true, but impossible because of the abrasion of the glass fibres – so the current opinion of experts.

LEIS Polytechnik GmbH and *EPIC Polymers* concertedly developed **NYLAFORCE® A 45 TS 13** which disproves this pretention. **NYLAFORCE® A 45 TS 13** was conceived especially for tribological applications. Because of the reinforcement with 50% glass fibres and producing **NYLAFORCE® A 45 TS 13** by using the „feed up-process“ excellent strength values with good viscosity are achieved.

The use of glass fibre reinforced polyamides for tribological applications failed so far in many cases because of the strong abrasion of the glass fibres. Our new product development **NYLAFORCE® A 45 TS 13** alleviates this problem by using a novel lubricant system. This reduces the abrasion caused by the glass fibres up to 80% - compared to conventionally glass fibre reinforced polyamides.

At the same time static and dynamic coefficient of friction are decreased up to 30%. Different from using PTFE as lubricant the mechanical values are not getting affected in a significant way.

First areas of application of **NYLAFORCE® A 45 TS 13** are yarn guidances for textile machines and bearing elements and gears with special requirements in terms of mechanical strenght.

Features of **NYLAFORCE® A 45 TS 13**:

- tensile strenght at rt 200 MPa
- tensile modulus at rt 16 000 MPa
- temperature application area -40°C to +120°C, at specific stabilisation up to +160°C
- highly weathering resistance
- highly abrasion resistance
- dyeable

■ Contact

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