

NYLAFORCE[®] **dynamic**



Power pack for functional parts subject to heavy loads with dynamic stress

With **NYLAFORCE[®] dyn B 50** LEIS Polytechnik polymere Werkstoffe GmbH was already presenting the first member of the **NYLAFORCE[®] dynamic** product line in 2009. Now, after two years of research and development the company is completing the series of products with three more materials.

NYLAFORCE[®] dynamic is manufactured using an optimized feed up-process. The mechanical properties achieved thereby are unique at heavily reinforced thermoplastics. So for instance the **NYLAFORCE[®] dyn A 60** type achieves tensile strength of almost 300 MPa with Charpy impact strength of 100 kJ/m². The **NYLAFORCE[®] dyn B 50** type passes the impact test even without any break, with tensile strength of at least 265 MPa and with elongation at breaking point of over 3%. A level that has not even been approached to date by polyamides with 50% glass fibre reinforcement. The new high-performance materials are especially suitable for functional parts subject to heavy loads with dynamic stress. They are also genuine alternatives to metals such as alloys of zinc and brass. The product range consists so far of **NYLAFORCE[®] dyn A 50**, **NYLAFORCE[®] dyn A 60**, **NYLAFORCE[®] dyn B 50** and **NYLAFORCE[®] dyn B 60**.

With **NYLAFORCE[®] dynamic** LEIS Polytechnik (www.leis-polytechnik.de) is further expanding its technological lead in heavily reinforced polyamides. The company is a specialist for developing and producing high-performance plastics and has exclusive know-how in the field of metal substitution (product line **NYLAFORCE[®]**) and tribologically optimized plastics.

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Stress-strain diagram comparison of **NYLAFORCE**[®] dynamic and standard polyamide PA 6.6 GF 50

