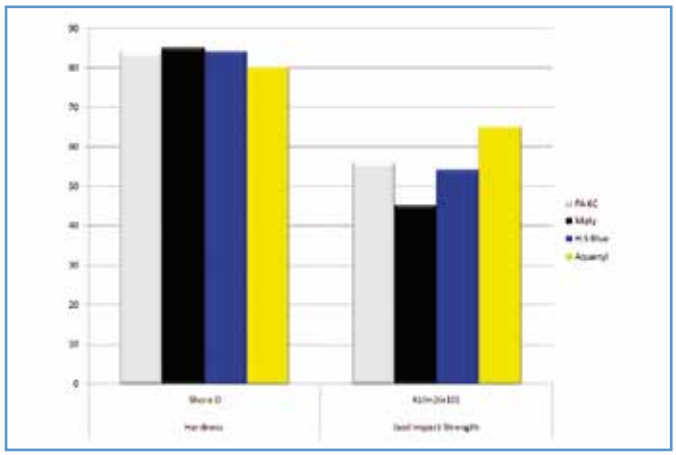
Nylacast Aquanyl 612

Aquanyl 612 is a copolymer of nylon 6 and nylon 12 produced via the anionic polymerization process using the monomer's of caprolactam and laurinlactam.
Laurinlactam has a similar effect to a plasticizer, but being a copolymer does not suffer the "leeching out" problems of many plasticisers'. The aim is to impart a greater degree of resilience to the material, for which purpose the co-polymerisation method is very successful.

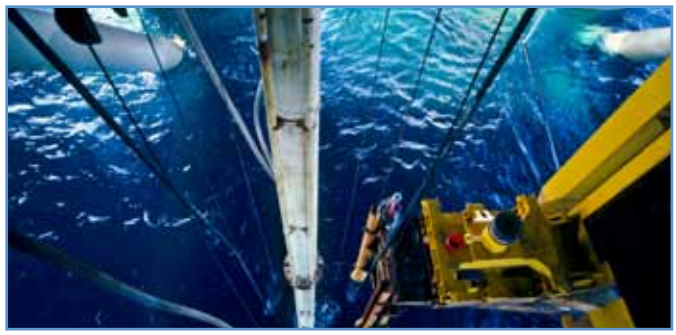
Aquanyl 612 is employed where additional resilience is a specific requirement for the application, for instance in the ball valve industry where the application of valve seat seals benefits greatly from this material. In addition due to its copolymer make up with nylon 12 the product has a lower moisture uptake than cast nylon providing the obvious benefit of improved dimensional stability.

Benefits of Nylacast Aquanyl 612



- Greater degree of material resilience
- Plasticised benefits without the associated problems
- Reduced water absorption
- Improved dimensional stability
- Good mechanical, thermal and chemical resistance properties
- Improved impact resistance
- Good PV and load bearing capabilities

Industry Users



- Petrochemical
- Offshore
- ailways
- Ship building
- Food and food packaging
- Bottling and canning
- Pharmaceuticals
- Steel Mills
- Quarrying/mining
- Cranes
- Shoe manufacturing
- Conveyors

Typical Application

- Seal rings
- Pipe clamps
- Thrust rollers
- Nozzles
- Bushes
- Sheaves/Pulleys
- Winches
- Difts
- Bespoke Components

Nylacast Aquanyl 612 is available as standard plate, rod and over thousands of tube OD/ID configurations in four different lengths.

In addition cut piece derivatives, strips, billets, discs and rings up to 2.5 metres diameter as well as custom castings to specific designs are available.

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