



Cast grades

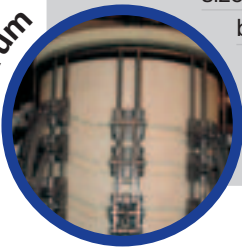
ERTALON® / NYLATRON®

Challenges: In this chicken processing line, the cutting tools move up and down driven by rollers moving in the slots of a cam drum. These tools are used for cutting the chicken into pieces.

Solution: ERTALON 6 PLA was selected, due to its excellent wear resistance and its food contact compliant composition. Cast PA 6 is the only material available in the sizes requested for the drums.

Benefits: Noise dampening, good impact resistance, availability of larger sizes – these are the key benefits of ERTALON 6 PLA in this application.

curve drum



Challenges: In aerial platforms, scissors are used as principle for lifting the platform, the end beams of the scissors must allow a safe and smooth movement in the guiding rail.

Solution: For the sliding blocks, strong and extreme wear resistant NYLATRON NSM has been chosen.

Benefits: The self-lubricating NYLATRON NSM provides higher wear resistance and lower friction. The internal lubricants help to prevent a jerky or intermittent motion known as stick-slip.

sliding blocks



< aerial platforms

ERTALON 6 PLA

(PA 6)

Unmodified cast nylon 6 grade exhibiting characteristics which come very close to those of ERTALON 66 SA. It combines high strength, stiffness and hardness with good creep and wear resistance, heat ageing properties and machinability.

natural (ivory)*
black
blue*

ERTALON 6 XAU+

(PA 6)

ERTALON 6 XAU+ is a heat stabilised cast nylon grade with a very dense and highly crystalline structure. Compared with conventional extruded or cast nylons, ERTALON 6 XAU+ offers superior heat ageing performance in air (much better resistance to thermal-oxidative degradation), allowing 15-30°C higher continuously allowable service temperatures. ERTALON 6 XAU+ is particularly recommended for bearings and other mechanical parts subject to wear which are operating in air for long periods of time at temperatures over 60°C.

black

ERTALON LFX

(PA 6 + oil)

This internally lubricated cast nylon 6 is self-lubricating in the real meaning of the word. ERTALON LFX, especially developed for unlubricated, highly loaded and slow moving parts applications, yields a considerable enlargement of the application opportunities compared to standard cast nylons. It offers a reduced coefficient of friction (up to 50% lower), considerably increasing the pressure-velocity capabilities, and a vastly improved wear resistance (up to 10 times better).

green

NYLATRON MC 901

(PA 6)

This modified cast nylon 6 grade with its distinctive blue colour exhibits higher toughness, flexibility and fatigue resistance than ERTALON 6 PLA. It has proved to be an excellent material for gear wheels, racks and pinions.

blue

NYLATRON GSM

(PA 6 + MoS₂)

NYLATRON GSM contains finely divided particles of molybdenum disulphide to enhance its bearing and wear behaviour without impairing the impact and fatigue resistance inherent to unmodified cast nylon grades. It is a very commonly used grade for gears, bearings, sprockets and sheaves.

grey-black

NYLATRON NSM

(PA 6 + solid lubricants)

NYLATRON NSM is a proprietary cast nylon 6 formulation containing solid lubricant additives which grant this material self-lubricity, excellent frictional behaviour, superior wear resistance and outstanding pressure-velocity capabilities (up to 5 times higher than conventional cast nylons). Being particularly suited for higher velocity, unlubricated moving parts applications, it is the perfect complement to the oil-filled grade ERTALON LFX.

grey

NYLATRON LFG

(PA 6 + oil)

NYLATRON LFG (Lubricated Food Grade) is self-lubricating in the real meaning of the word, and has a FDA food contact compliant composition. The NYLATRON LFG has been specially developed for non-lubricated, highly loaded and slowly moving parts in food contact applications. Compared to standard cast nylons, it offers lower maintenance costs and longer service life.

natural (ivory)
blue

NYLATRON 703 XL

(PA 6 + internal lubricants)

This high performance cast nylon 6 bearing grade provides an even better wear resistance than NYLATRON NSM, combined with superior pressure-velocity capabilities and an industry first: a near zero level of "stick-slip". The elimination of stick-slip, mostly associated with chatter or squeaking, provides an extraordinary amount of motion control for high-precision applications.

purple