

MAKING SENSE OF NYLONS

Nylon is a diverse plastic with many attractive properties and is commonly used in many industries. It has excellent wear resistance making it ideal for bushings, sheaves and telescopic boom pads.

Many blends of have been formulated to accommodate specific applications. In addition to various blends manufacturers use proprietary and trademark names making it difficult to determine which blend is best for your application. The following will help select an appropriate blend.

Nylon 6

Standard cast nylon with no additives. It is FDA, USDA and 3A compliant. It is commonly used for food contact parts.

Colour: off-white

Nylon 6 + Molybdenum disulfide

Molybdenum disulfide (MoS2) is added to enhance the load bearing capabilities. It is used for sheaves, sprockets and bushings. Colour: grey-black

Nylon 6 + MoS2 + Oil

MoS2 and Oil are added to reduce the coefficient of friction. This helps reduce the "Slip-Stick" making it ideal for low friction wear pads. Secondly, the PV value is marginally increased allowing this blend to support more load than straight MoS2. Colour: blue-grey

Nylon 6 + Solid Lubricant

Modified with a proprietary solid lubricant to significantly increase the PV value. The higher PV value increases the wear rate and load capability. It is used for conditions where other nylons have failed. Colour: light-grey

Nylon 6 + Plasticizer

Impact-modified nylon to increase the Izod notch sensitivity. It is more resistant to fracturing under high-impact loads. A great material for pile driving bushing plates and mining equipment. Colour: blue or black

CAUTION: Colours are not necessarily consistent amongst Nylon manufacturers so identification based on colour is inconclusive.

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