

MC Nylon Sheet/Rod/Tube



NATURAL / BLACK CAST NYLON 6

Natural & Black standard grade of Monomer Cast Nylon offers an excellent combination of Mechanical strength, stiffness and, electrical insulation and wear properties. These properties make our standard grade of nylon the perfect choice for use as gears, rollers, star wheels scrolls and many other mechanical applications where the use of metal is not possible.

GREEN / YELLOW OIL FILLED NYLON 6

Green & Yellow Oil Filled cast Nylon is an internally lubricated grade of nylon that is commonly used in applications where applied lubricants cannot be used. Oil Filled Nylons have a lower co-efficient of friction over standard grades of nylon and also offer improved wear resistance.

BLACK MoS2 FILLED NYLON 6

MoS2 Cast Nylon has a low co-efficient of friction as well as excellent wear characteristics and temperature resistance make an excellent choice for bearings and wear pads, its self-lubricating, and impact resistance properties make it suitable for gears, bearings, bushings, wear slides and many other applications.

APPLICATIONS

Friction bearings, bushings, gears, valve seats, couplings, rollers, cams, clamps, pump components, snap connectors.

SPECIFICATIONS

Sheet		
Length (mm)	Width (mm)	Thickness (mm)
1000	1000	10-100

Rod	
O.D. (mm)	Length (mm)
50-200	500

Tube		
O.D. (mm)	Wall Thickness (mm)	Length (mm)
40-210	5-85	560

PROPERTIES (FOR STANDARD GRADE)

Item	Units	Value
Density	g/cm ³	1.15-1.16
Water Absorption	%	≤0.6
Frictional Coefficient		< 0.45
Wear Loss	Mg	< 4.5
Compressive Strength	Mpa	127
Rockwell Hardness	RHM	112
Tensile Strength	Mpa	79
Flexural Strength	Mpa	130-150
IZOD Impact Strength	KJ/m	>14
Elongation at Break	%	60
Shear Strength	Mpa	80-95
Bending Elastic Modulus	Gpa	26.4-31
Heat Deformation Temperature (0.46Mpa)	°C	120
Breakdown Voltage	KV/mm	18.6