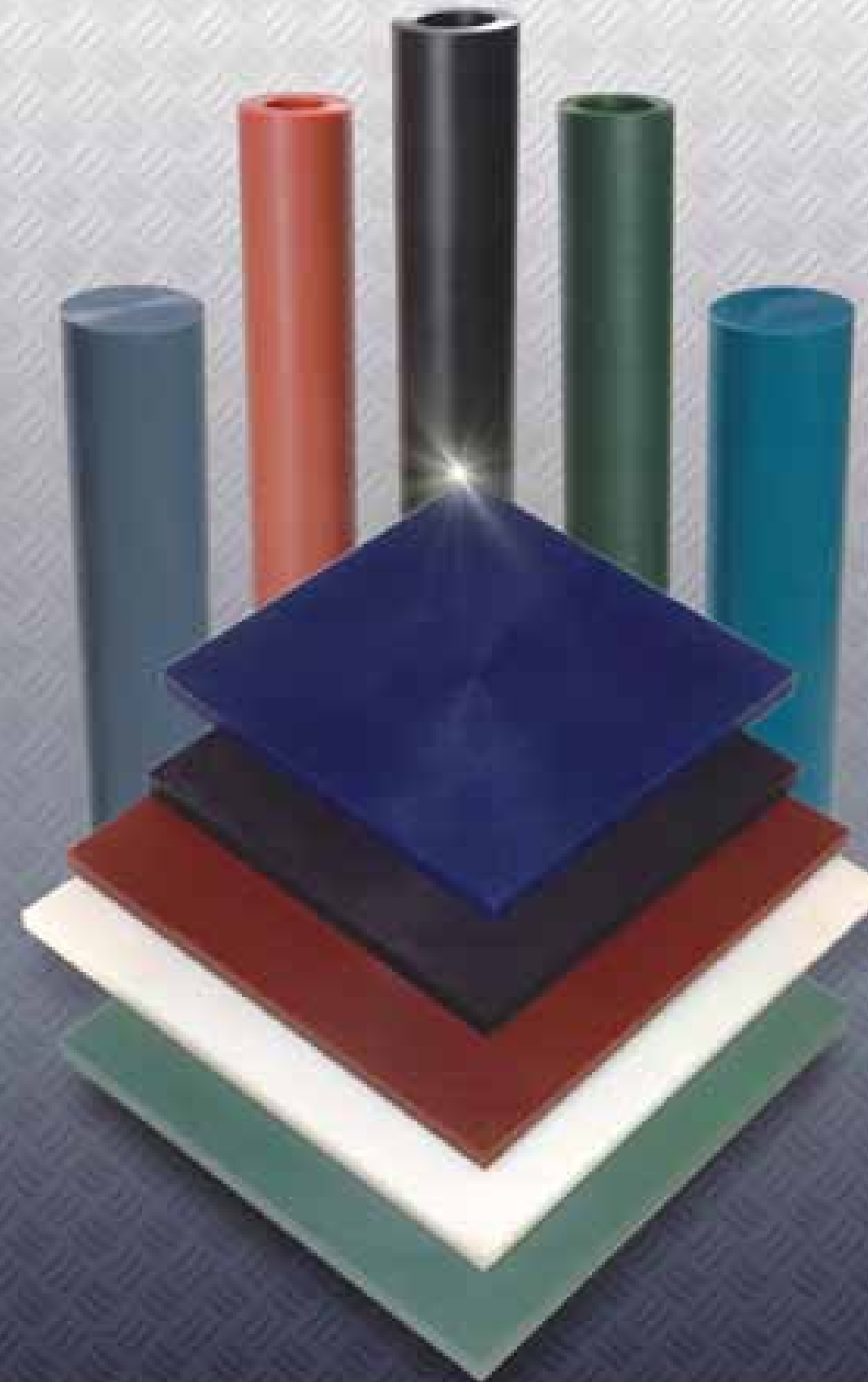


TECHNICAL DATA

| Property | Test Method | Unit | Kaylon | Kaylon Oilon | Kaylon Moly | Kaylon H S |
|------------------------------------|------------------------|-------------------|--------|--------------|-------------|------------|
| Density | ISO 1183:1987 | g/cm ³ | 1.14 | 1.14 | 1.15 | 1.14 |
| Water Absorption | ISO 62:1999 (Modified) | % | 0.3 | - | 0.2 | - |
| Tensile Strength | ISO 527-1/2:1999 | Mpa | 80 | 75 | 85 | 80 |
| E Modulus | ISO 527-1/2:1993 | Mpa | 4000 | 4000 | 4100 | 4000 |
| Compressive Strength | ISO 604:2002 | Mpa | 95 | 95 | 105 | 95 |
| Elongation at Break | ISO 527-1/2:1993 | % | > 20 | > 30 | > 20 | > 20 |
| Flexural Strength | ISO 178:2001 | Mpa | 105 | 100 | 115 | 105 |
| Izod Impact Strength {Notched} | ISO 180:2000 | Kj/m ² | 5.6 | 6 | 4.5 | 5.4 |
| Hardness (Shore D) | ISO 868: 2003 | - | 84 | 83 | 85 | 84 |
| Co-efficient of Friction (Dynamic) | - | - | 0.39 | 0.15 | 0.25 | 0.15 |
| Wear Rate | - | mg/km | 0.44 | 0.11 | - | - |
| Max. intermittent Service Temp. | - | °C | 170 | 170 | 170 | 180 |
| Max. continuous Service Temp. | 5000 hrs. | °C | 100 | 110 | 105 | 115 |
| Dielectric Strength | IEC 60243-1: 1988-01 | kv/mm | 25 | 25 | 25 | 25 |

KAYLON
Ultimate choice of Engineers



For further details, please contact :

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KAYLON

Kaylon is a partially crystalline polyamide and have managed to gain a key position in engineering plastics through the combination of high strength and high toughness even at a low temperature. Polyamide has become a multi purpose plastic. It has the following outstanding properties.

- Good toughness
- High dynamic load bearing capacity
- High strength and stiffness
- Almost no tension crack formation
- Good chemical resistance
- Good gas barrier properties
- Higher temperature operating capacity
- Good wear and abrasion resistance
- Low internal stresses and good dimensional stability
- Excellent abrasion resistance
- Excellent flexural strength
- Very good operation without lubrication

Applications :

Kaylon components can be used in many diverse applications in industries including construction, Oil and Gas, Pharmaceuticals, Food Processing, Railways, Mining, Water Treatment and Automotives. Some of the products are :

- Gears, Sprockets, Wear Pads for telescopic booms
- Hose Pulleys
- Chute Liners
- Bearings, Bushes
- Guide Plates, Chain guides
- Wiper Shields
- Shaft supports
- Out rigger pad
- Wear Strips

Kaylon's properties are useful for mining and construction industries.

- Exceptional resistance to wear and abrasion.
- Light weight, typically 1/6th of the weight of steel.
- Self lubricating resulting in low maintenance cost.
- Low co-efficient of friction
- Life is 25 times the life of similar components in phosphor bronze
- Corrosion and chemical resistance



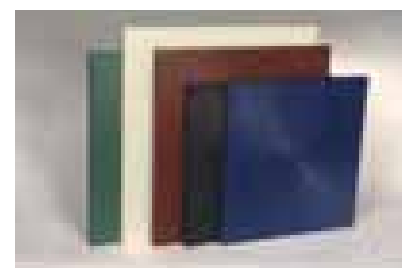
Nozzle



Hollow Rods



Solid Rods



Sheets



Slipper Pad

Kaylon's Alloy for different applications:

1. Kaylon Oilon
2. Kaylon Moly
3. Kaylon H.S.

1. KAYLON OILON

Features :

- Low wear and abrasions resistance
- Improved PV characteristics
- Improved co-efficient of friction
- Reduced water absorption
- Good dimensional stability
- FDA Compliant



Nylon Moulded Components



Bushes and Bearings



Gear Pinion & Sprockets

2. KAYLON MOLY

Features:

- Improvement in wear property
- Lower co-efficient of friction
- Lower water asorption than Kaylon

Kaylon's crystallisation is improved by the addition of MOS₂ which increases the ultimate stress value without impairing the toughness property and also enhances the higher impact strength and sliding property is also improved.



Pressure Pads

3. KAYLON HS

Features:

- Better performance at higher operating temp.
- Heat stabilized
- Improved mechanical properties
- Good dimensional stability as compared to Kaylon Natural
- Good PV and load bearing capacity



Rods

New
Era
in
Cast
Nylons

