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MACHINIST OF PTFE COMPONENTS AND OTHER
HIGH PERFORMANCE ENGINEERING PLASTICS

Material Specification Sheet

NYLON

Mechanical Properties

Specific Gravity		66 = 1.15 g/cm³ 6 = 1.14
Tensile Strength		66 = 88 Mpa 6 = 80
Elongation @ Break		66 = 50% 6 = 60
Hardness		66 = 83 Shore D 6 = 82
Coefficient of friction		0.42
Moisture Absorbsion		66 = 2.80% 6 = 3

Thermal Properties

Maximum Working Temperature		66 = 170ºC 6 = 160
Minimum Working Temperature		66 = -30ºC 6 = 40
Operating Temperature		66 = 100ºC 6 = 100
Melting Temperature		66 = 255ºC 6 = 220

Characteristics

Nylon 66 :- Harder than 6, higher temperature range, easier to machine
Nylon 6 :- Has better shock resistance than 66
Nylon 66.6 Blend of 6 + 66 + Graphite. More impact resistance & lower friction than 66
Fills :- GLASS, GRAPHITE, CARBON, OIL, MoS2, COLOUR