



Nylon

Nylon is a strong, stiff engineering plastic with outstanding bearing and wear properties. Nylon is frequently used to re-
place metal bearings and bushings often eliminating the need for external lubrication. Other benefits include a reduction
in part weight, less operating noise, and decreased wear on mating parts.

- Performance characteristics:
- Excellent bearing and wear properties
 - Strong and stiff
 - Good chemical resistance
 - Easy to machine
 - Easy to fabricate
 - Reduced noise, weight, and wear of mating parts

TECHNICAL DATA SHEET | (EFFECTIVE 24FEB25)

Nylon						
PHYSICAL PROPERTY	TEST METHOD	UNIT	EXTRUDED NYLON 6/6	CAST NYLON 6	MD-FILLED CAST NYLON 6	OIL-FILLED CAST NYLON 6
Tensile Strength	D638	psi	12,400	10,000 - 13,500	10,000 - 14,000	9,500 - 11,000
Flexural Modulus	D790	psi	410,000	420,000 - 500,000	400,000 - 500,000	375,000 - 475,000
Izod Impact (notched)	D256	ft-lbs/in	1.2	0.7 - 0.9	-	1.4 - 1.8
Heat Deflection Temperature @ 264 psi	D648	°F	194	200 - 400	200 - 470	200 - 400
Maximum Continuous Ser- vice Temperature in air	-	°F	210	230	-	230
Water Absorption (immersion 24 hours)	D570	%	1.20	0.60 - 1.20	0.05 - 1.40	0.50 - 0.60
Coefficient of Linear Thermal Expansion	D696	in/in/°Fx10 ⁻⁵	4.5	5.0	-	5.0
Light Transmittence	-	-	0.28	0.22	0.30	0.12