



Specification Sheet

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MATERIAL : PA Nylon (Polyamide) (Natural)

Property	Spec	Value
Hardness Shore A	ISO 868	85D +/- 5 Shore D
Specific Gravity	DIN 53479	1.13 g/cm ³
Tensile Strength	ASYM D 4745-79	11600 psi
Elongation at Break	ASYM D 4745-79	400 %
Ball Indentation Hardness	DIN 53456 (H135/30)	22200 psi
Young's Modulus	DIN 53457	435000 psi
Thermal Conductivity	DIN 52612	0.29
Coefficient of Thermal Expansion	ISO 815	8 K ₋₁ x 10 ⁻⁵
Compression Strength 25% Deformation, 338° F	23C -200C	0.4 U
Minimum Service Temp.		-40 ° F
Maximum Service Temp.		+ 230 ° F
Color		Natural

Description:

Nylon is used for mechanical parts such as machine screws, gears and other low- to medium-stress components previously cast in metal. Engineering-grade nylon is processed by extrusion, casting, and injection molding. Solid nylon is used in hair combs. Type 6,6 Nylon 101 is the most common commercial grade of nylon, and Nylon 6 is the most common commercial grade of molded nylon. For use in tools such as the spudger, a nylon is available in glass-filled variants which increase structural and impact strength and rigidity, and molybdenum sulfide-filled variants which increase lubricity.