



Acetal (polyoxymethylene, POM) and nylon are both plastics with different properties. Acetal is more resistant to moisture and easier to machine, while nylon is more temperature resistant and has higher tensile strength.

Moisture resistance

Acetal: Absorbs about 0.8% moisture by weight, while nylon can absorb up to 8%.

Nylon: Filled nylon systems, like those with 30% glass, absorb less moisture than unfilled nylon.

Temperature resistance

Nylon

Has a higher melting point than acetal, so it can withstand higher temperatures without deforming.

Acetal

Has a lower melting point, so it might soften or deform at lower temperatures.

Machining

Acetal: Easier to machine than nylon.

Nylon: Compatible with 3D printing.

Other properties

Nylon: Self-lubricating, lighter than metal, and produces less noise.

Acetal: Used in precision parts that require high stiffness, low friction, and dimensional stability.

Uses

Acetal: Used in CNC machining.

Nylon: Used in clothing, industrial applications, and machine parts.