

# NYLON FITTINGS

Nylon is a strong and ridged polymer with excellent chemical and heat resistance. Our nylon fittings are made from high quality 1<sup>st</sup> generation resin. Nylon fittings are generally acceptable for use at working pressures up to 150 PSI at normal room temperatures; and at lower pressures, working temperatures can approach 167°F (see physical properties).

Nylon is resistant to a broad range of chemicals including most agricultural chemicals, ammonium compounds, detergents, diesel fuel, ethanol, gasoline, hexane, magnesium sulphate, most sodium compounds, trichloroethylene, and zinc sulphate.

Nylon fittings should not be used with acid-based fertilizers, bromine, chlorine, fluorine, hydrochloric acid, iodine, nitric acid, phosphoric acid, sulfuric acid and xylene. It should also be noted that chlorine in water systems can produce an oxidizing environment that will shorten the life of nylon based materials.

Use for diesel fuel and gasoline

Use Teflon tape

Use for applications up to 167°F (see physical properties)

## Not Recommended

Use with acid-based fertilizers & chemicals

Use with xylene-based chemicals

Use with chlorine-based chemicals including chlorinated water systems

Use with compressed gases

Use in applications subject to ozone

Use in situations with extreme exposure to ultraviolet radiation

Use at 32°F or below where fluid expansion due to freezing can occur

## Physical Properties (Values are representative, but may vary slightly. Specific grade details are available upon request.)

Tensile Strength @ Yield: 12300 psi

Flexural Modulus: 420600 psi

Izod Impact (Notched): 2.62 ft-lbs/in

Maximum Use Temperature: up to 167°F @ 75psi (based on relative temperature index mechanical w/impact)

Minimum Use Temperature: Resin durability generally decreases as temperature decreases; therefore, minimum use temperature must be based on the requirements of the specific application. In some cases, resin properties are published down to -40°F. However, special consideration does need to be given to end use applications where there is a possibility of expansion due to freezing.

## Certifications & Compliance

RoHS Compliant

FDA Approved

NSF61 Certified

PROP 65 Compliant

REACH Compliant

## Recommended

Use for high structural or physical strength