



# Hydlar<sup>®</sup> Z

Aramid-Filled Nylon PA66 Sheet

## Description and Overview

Hydlar<sup>®</sup> Z is an aramid fiber filled nylon sheet with excellent abrasion and wear properties. It is a strong and stiff material that helps minimize mating surface abrasion and is easily machined.

In general, nylon plastic is a strong, stiff mechanical and engineering machinable thermoplastic with outstanding toughness, dimensional stability, wear resistance, availability, and versatility. Perfect for bearing and wear applications, nylon is frequently used to replace metal bearings and bushings, many times eliminating need for external lubrication.

## Applications and Uses

Good mechanical load bearing properties in addition to its dimensional stability make it a good fit for applications in the construction industry as well as for conveyor technologies and mechanical engineering applications.

- Construction
- Conveyor technology
- Mechanical engineering
- Gear manufacturing
- Power engineering



Hydlar<sup>®</sup> Z is available in sheet and rod shapes.  
Full sheet: 24" x 48"  
Thicknesses: .25" to 1.5"  
Rod diameters: .25" to 3.5" dia.

## Properties and Specifications

Property	Hydlar <sup>®</sup> Z
Impact strength, Izod	2.7 ft.-lbs./in.
Tensile Modulus	1,300,000 psi
Tensile Strength (Yield)	16,000 psi
Flexural Modulus	900,000 psi
Flexural Strength	23,000 psi
Hardness, Rockwell	R116
Water Absorption @ 24 hrs.	0.37%
Wear Rate	79-128 *10 <sup>-10</sup> in <sup>3</sup> - min/f
Deflection Temperature	470°F @ 264 psi
Service Temperature	300°F
Affixable Properties	Chem / Mech

Properties are typical.  
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.  
Mech is an abbreviation for mechanically affixed bonding.  
Field testing is recommended for any application.

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