



678 Howard Ave :: Bridgeport, CT 06605

## **TECAFORM**

## (Acetal Copolymer)

TECAFORM™ is a semi-crystalline thermoplastic offering high strength, stiffness and toughness. TECAFORM™ is resistant to hot water, hydrocarbons and solvents, and it

possesses good bearing and wear properties. It is available in natural and black grades.
TECAFORM™ is commonly used as bushings, rollers,

wear strips and other applications requiring a combination of strength, low moisture absorption, chemical resistance and dimensional stability.

- No centerline porosity
- Low moisture absorption
- Excellent machinability
- Good combination of mechanical properties
- Chemical resistance to fuels and solvents
   TECAFORM™ is resistant to aqueous solutions with pH values
   ranging from 4 to 14.
- Good wear and abrasion properties
- Natural grade is FDA, USDA, NSF and 3A Sanitary compliant
- Good dimensional stability
- Good property retention at elevated temperatures
- Black grade is FDA compliant

TECAFORM<sup>™</sup> is used in a wide variety of industrial applications requiring good strength and toughness, dimensional stability, wear resistance and the ability to operate in a wet environment with little absorption. Material handling, machinery and fluid handling are some of the common industries utilizing TECAFORM<sup>™</sup>s combination of properties. Typical applications are gears, wear strips, bushings, pump parts, fittings and rollers.

## **TYPICAL PROPERTY VALUES**

	PROPERTIES	ASTM Test Method	Units	Tecaform™
PHYSICAL	Density Specific Gravity Water Absorption, @24 hours, 73°F @Saturation, 73°F	D792 D792 D570 D570	lbs/in³ g/cc % %	0.0507 1.41 0.22 0.8
MECHANICAL	Tensile Strength @ Yield, 73°F Tensile Modulus Elongation @ Break, 73°F Flexural Strength, 73°F Flexural Modulus, 73°F Compressive Strength Izod Impact Strength, 73°F Rockwell Hardness, 73°F Shure Hardness Wear Factor Against Steel, 40 psi, 50 fpm Static Coefficient of Friction Dynamic Coefficient of Friction, 40 psi, 50 fpm	D638 D639 D638 D790 D790 D695 D256 D785 - D3702 D3702	psi psi psi psi psi ft-lbs/in M Scale D Scale in³ x 1 hr PV	8,800 380,000 25 11,000 360,000 4,500 1.0 86 - 65 x 10 <sup>-10</sup>
THERMAL	Heat Deflection Temperature @ 66 psi @ 264 psi Coefficient of Linear Thermal Expansion Maximum Servicing Temperature, Intermittent Long Term Specific Heat Thermal Conductivity Vicate Sofening Point Melting Point Flammability	D648 D648 D696 - UL746B - - - D2133 UL94	°F in/in/°F °F °F BTU/lb-°F - °F	316 230 4.7 x 10 <sup>5</sup> 285 195 - - - 329 HB
ELECTRICAL	Surface Resistivity Volume Resistivity Dielectric Strength Dielectric Constant, @ 60 Hz, 73°F, 50% RH	D257 D257 D149 D150 D150 D150 D150 D150	ohm/square ohm-cm V/mil - - - - -	1.0 × 10 <sup>14</sup> 500 3.7 - - - 0.001

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability. All trade and patent rights should be observed. All rights reserved. Data obtained from extruded shapes material.

## **MATERIAL AVAILABILITY**

Rods: Diameters: 4 3/4", 10' length Length: 5" and greater, 5' length

Length. 5 and greater, 5 length

Primary Specification (Resin) (Typical)

Natural ASTM-D-4181 POM211 Black ASTM-D-4181 POM211 Plates: 1/4" to 2" thickness inclusive are 2' x 4', 4' x 8', 4' x 10' 2-1/4" to 4" thickness inclusive are 2' x 4'

Shapes Specification (Typical)

Natural ASTM-D-6100 S-POM0211 Black ASTM-D-6100 S-POM0211

Profiles, tubes, and special sizes are custom-produced on request.



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