

TECAFORM® FG BLUE

TECAFORM®FG BLUE is Ensinger's new blue colored acetal designed specifically for the food industry. TECAFORM®FG BLUE is resistant to hot water, and typical cleaning

chemicals, and it possesses good bearing and wear properties. It's blue color makes it more visible than standard grades. TECAFORM®FG BLUE 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**
- **Resistance to food industry cleaning chemicals**
TECAFORM®FG BLUE is resistant to aqueous solutions with pH values ranging from 4 to 14.
- **Good wear and abrasion properties**
- **TECAFORM® FG BLUE is manufactured from resin and color components that are FDA, USDA, and 3A Dairy compliant**
- **Good dimensional stability**
- **Good property retention at elevated temperatures**

TECAFORM®FG BLUE is used in a wide variety of food industry applications requiring good strength and toughness, dimensional stability, wear resistance and the ability to operate in a wet environment with little absorption. Material handling, filling and bottling equipment are some of the common machines utilizing TECAFORM®FG BLUE'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™ FG Blue
PHYSICAL	Density	D792	lbs/in ³	0.0507
	Specific Gravity	D792	g/cc	1.41
	Water Absorption @ 24 hours, 73°F	D570	%	0.22
	@ Saturation, 73°F	D570	%	0.8
MECHANICAL	Tensile Strength @ Yield, 73°F	D638	psi	8,800
	Tensile Modulus	D639	psi	380,000
	Elongation @ Break, 73°F	D638	%	25
	Flexural Strength 73°F	D790	psi	11,000
	Flexural Modulus, 73°F	D790	psi	360,000
	Compressive Strength	D695	psi	4,500
	Izod Impact Strength, 73°F	D256	ft-lbs/in	1.0
	Rockwell Hardness, 73°F	D785	M Scale	86
	Shore Hardness	-	D Scale	-
	Wear Factor Against Steel, 40 psi, 50 fpm	D3702	$\frac{\text{in}^3}{\text{hr}} \times \frac{1}{\text{PV}}$	65×10^{-10}
	Static Coefficient of Friction	D3702	-	-
Dynamic Coefficient of Friction, 40 psi, 50 fpm	D3702	-	0.21	
THERMAL	Heat Deflection Temperature @ 66 psi	D 648	°F	316
	@ 264 PSI	D648	°F	230
	Coefficient of Linear Thermal Expansion	D696	in/in/°F	4.7×10^{-5}
	Maximum Servicing Temperature, Intermittent	-	°F	285
	Long Term	UL746B	°F	195
	Specific Heat	-	BTU/lb-°F	-
	Thermal conductivity	-	-	-
	Vicat Softening Point	-	°F	-
	Melting Point	D2133	°F	329
Flammability	UL94		HB	
ELECTRICAL	Surface Resistivity	D257		-
	Volume Resistivity	D257	ohm/square	1.0×10^{-14}
	Dielectric Strength	D149	ohm-cm	500
	Dielectric Constant, @ 60 Hz, 70°F, 50% RH	D150	V/mil	3.7
	@ 1 MHz	D150	-	-
	@ 20 GHz	D150	-	-
	@ 30 GHz	D150	-	-
	Dielectric Loss Factor @ 60 Hz, 70°	D150	-	0.001

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MATERIAL AVAILABILITY – Custom ordered - minimums apply

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

Plates: 1/4" to 2" thickness inclusive are 2' x 4'
2-1/4" to 4' thickness inclusive are 2' x 4'

Primary Specification (Resin) (Typical)

ASTM-D-6778 POM0211

Shapes Specification (Typical)

ASTM-D-6100 S-POM0211

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



DISTRIBUTED BY

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