TECAFORM® FG Blue

Acetal (POM) Copolymer

Ensinger Inc.

Message:

TECAFORM® FG Blue is Ensinger's new blue colored acetal designed specifically for the food industry. TECAFORM® is resistant to hot water, and typical cleaning chemicals, and it possesses good bearing and wear properties. Its blue color makes it more visible than standard 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.
TECAFORM® 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®'s combination of properties. Typical applications are gears, wear strips, bushings, pump parts, fittings and rollers.

General Information			
Features	Good dimensional stability		
	Low hygroscopicity		
	Copolymer		
	Machinable		
	Good wear resistance		
	Good chemical resistance		
	Good wear resistance		
	Compliance of Food Exposure		
Uses	Bushing		
	Wear strip		
	Roller		
Agency Ratings	FDA not rated		
	USDA 3A		
Appearance	Blue		
Forms	Shapes		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.41	g/cm³	ASTM D792
Water Absorption			ASTM D570
23°C, 24 hr	0.22	%	ASTM D570
Saturated, 23°C	0.80	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale, 23°C)	86		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2620	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	60.7	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	25	%	ASTM D638

Flexural Modulus (23°C)	2480	MPa	ASTM D790
Flexural Strength (23°C)	75.8	MPa	ASTM D790
Compressive Strength	31.0	MPa	ASTM D695
Coefficient of Friction [1] (vs. Itself - Dynamic)	0.21		
Wear Factor (0.28 MPa, 0.25 m/sec)	130	10^-8 mm³/N·m	ASTM D3702
Impact	**Nominal Value**	**Unit**	**Test Method**
Unnotched Izod Impact	53	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	158	°C	ASTM D648
1.8 MPa, not annealed	110	°C	ASTM D648
Melting Temperature	165	°C	ASTM D2133
CLTE - Flow	8.5E-5	cm/cm/°C	ASTM D696
Maximum Service Temperature			
Intermittent	141	°C	
Long Term	91	°C	UL 746B
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant [2] (23°C, 60 Hz)	3.70		ASTM D150
Dissipation Factor (23°C, 60.0 GHz)	1.0E-3		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Additional Information			
Data obtained from extruded shapes material.			
NOTE			
1.	40 psi, 50 fpm		
2.	50% RH		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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