TECAFORM® TECAFORM®

Acetal (POM) Copolymer

Ensinger Inc.

Message:

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. TECAFORM® 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®'s combination of properties. Typical applications are gears, wear strips, bushings, pump parts, fittings and rollers.

General Information			
Features	Semicrystallization		
	Good dimensional stability		
	Low hygroscopicity		
	Rigidity, high		
	High strength		
	Copolymer		
	Solvent resistance		
	Machinable		
	Good wear resistance		
	Good chemical resistance		
	Good wear resistance		
	Hydrocarbon resistance		
	Good toughness		
Uses	Pump parts		
	Bushing		
	Gear		
	Wear strip		
	Roller		
	Accessories		
Agency Ratings	FDA not rated		
Appearance	Black		
	Natural color		
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)	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 ² (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 ³	91	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant ⁴ (23°C, 60 Hz)	3.70		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	НВ		UL 94
Additional Information			
Data obtained from extruded shapes			
NOTE			
1.	40 psi, 50 fpm		
2.	Against Steel		
3.	UL 746B		
4.	50% RH		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

