ENSINGER
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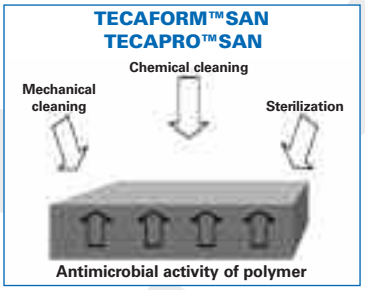
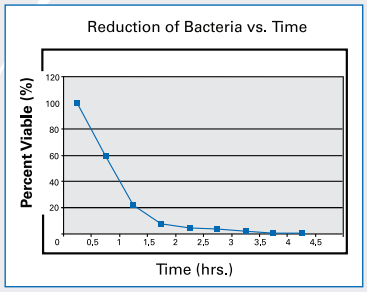
TECAFORM™ SAN
TECAPRO™ SAN

TECAFORM™ SAN and TECAPRO™ SAN

TECAFORM™ (Polyacetal) and TECAPRO™ SAN (Polypropylene), provide an additional safety factor in reducing incidence of bacterial contamination. The raw materials are charged with an antimicrobial additive. These silver ions are released gradually to reduce the formation of bacteria.





Typical performance of antimicrobial surfaces on bacteria

- **Less bacterial contamination**
- **Reduced odor and biofilm formation**
- **Diminished formation of bacteria in equipment**
- **Active components are harmless to humans**
- **Scrubbing surface renews antimicrobial effect**
- **FDA conformity of raw material, color pigments and antimicrobial additive**

TECAFORM™SAN and TECAPRO™SAN are ideal where continual sanitary and anti bacterial conditions are a requirement. Excellent for components in food processing equipment, bottling and canning machines, water handling and filtration equipment. Door handles and buttons in public places would benefit from reduction in transfer of bacteria. TECAPRO™SAN is especially effective in surgical instruments, trays, work surfaces and cutting boards in medical as well as food storage and preparation areas.

TYPICAL PROPERTY VALUES

	PROPERTIES	ASTM Test Method	Units	TECAPRO™ SAN	TECAFORM™ SAN
PHYSICAL	Density	D792	-	0.92	1.41
	Moisture Absorption, @equilibrium, 72°F/50% RH)	ISO 62	%	0.05	<0.3
MECHANICAL	Tensile Strength @ Yield	D638, DIN EN ISO 527	psi	4785	7975
	Elongation @ Break	D638, ISO 527	%	>45	30
	Tensile Modulus	D638, ISO 527	psi	300000	30400
	Flexural Modulus	D790, ISO 178	psi	200000	360000
	Hardness (ball indentation)	ISO 2039/1 & 2	psi	14500	21025
	Impact Resistance	ISO 180	ft-lb/in^2	0.328	No break
THERMAL	Melting Point	DIN 53 736	°F	325	329
	Heat Deflection Temperature	ISO - 75/A	°F	187	230
	Maximum Service Temperature				
	Short Term		°F	284	284
	Long Term		°F	212	212
	Coefficient of Linear Thermal Expansion	D696, DIN 53 752, ASTM E831	in/in/°F		$5.5x10^{-5}$
	Flammability	UL - 94	-	HB	HB
ELECTRICAL	Volume Resistivity	D257, EC 93, DIN IEC 60093	ohm-cm	-	10^{14}
	Dielectric Strength	D149, IEC-243, VDE 0303 part 2	V/mil		-

Extreme chemical exposure (alkaline and acid solutions) can impact the antimicrobial effect on polymeric surfaces. Bacterial decay can be protracted by the application of antimicrobial products and thus it provides additional safety for the customer. However, usual and necessary cleaning practices should not be discontinued.

ENSINGER TECAFORM™ SAN and TECAPRO™ SAN are effective against a broad range of micro-organisms such as bacteria, fungi, algae, viruses, etc. As they differ greatly in their living conditions and their impact, the antimicrobial performance needs to be analyzed for the specific application to be able to give a pointed statement about antimicrobial effects under given circumstances.

TECAFORM™
Stock shapes: ASTM D 6100 S-POM0001
Resin spec: ASTM D 6778 POM0000

TECAPRO™
Resin spec: ASTM D 4101 PP0110

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