TECAFORM® AH SD natural - Stock Shapes (rods, plates, tubes)

Chemical Designation
POM-C (Polyacetal (Copolymer))

Colour
natural opaque

Density
1.33 g/cm^3

Fillers
antistatic agent

Main features
- non-sloughing
- easy to machine
- good wear properties
- good chemical resistance
- good mechanical properties
- antistatic

Target Industries
- aircraft and aerospace technology
- protection of electronics
- computer technology
- explosion protection
- mining industry
- business machines
- conveyor technology

Mechanical properties	condition	value	unit	test method		comment
Modulus of elasticity (tensile test)	@ 73 °F	189,000	psi	ASTM D 638		(1) Data obtained from public source
Tensile strength at yield	@ 73 °F	5,000	psi	ASTM D 638		
Elongation at yield (tensile test)	@ 73 °F	23	%	ASTM D 638	1)	
Elongation at break (tensile test)		20	%	ASTM D 638		
Flexural strength		7,000	psi	ASTM D 790		
Modulus of elasticity (flexural test)		210,000	psi	ASTM D 790		
Compression strength	@10% strain	6,700	psi	ASTM D 695		
Compression modulus	@ 73 °F	150,000	psi	ASTM D 695		
Impact strength (Izod)		1.6	ft-lbs/in	ASTM D 256		
Coefficient of friction	Static	0.11		-		
Coefficient of friction	Dynamic	0.18		-		

Thermal properties	condition	value	unit	test method		comment
Melting temperature		329	°F	-	1)	(1) Data obtained from public source (2) Data obtained from public source (3) Data obtained from public source (4) Data obtained from public source
Deflection temperature	@264 psi	190	°F	ASTM D 648		
Service temperature	Long Term	212	°F	-	2)	
Service temperature	short term	284	°F	-	3)	
Thermal expansion (CLTE)		$7.5*10^{-5}$	in/in/°F	-	4)	

Electrical properties	condition	value	unit	test method		comment
surface resistivity		10^9-10^{11}	Ω/square	ASTM D 257		(1) Data obtained from public source
Dielectric strength		500	V/mil	-	1)	

Other properties	condition	value	unit	test method		comment
Moisture absorption	@24 hr, 73 °F	1.4	%	ASTM D 570		
Flammability (UL94)		HB		-		

- Resin specification:
  ASTM D6778-20 POM0200
  Shapes specification:
  ASTM D6100-17 S-POM0200 (only for Acetal shapes >0.062" thick)

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