

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

Chemical Designation

POM-C (Polyacetal (Copolymer))

Colour

natural opaque

Density

1.33 g/cm³

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

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
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	-	-	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Melting temperature		329	°F	-	1) (1) Data obtained from public source
Deflection temperature	@264 psi	190	°F	ASTM D 648	(2) Data obtained from public source
Service temperature	Long Term	212	°F	-	2) (3) Data obtained from public source
Service temperature	short term	284	°F	-	3) (4) Data obtained from public source
Thermal expansion (CLTE)		7.5*10 ⁻⁵	in/in/°F	-	4)
<i>Electrical properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
surface resistivity		10 ⁹ -10 ¹¹	Ω/square	ASTM D 257	(1) Data obtained from public source
Dielectric strength		500	V/mil	-	1)
<i>Other properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Moisture absorption	@24 hr, 73 °F	1.4	%	ASTM D 570	
Flammability (UL94)		HB	-	-	

→ Resin specification:
ASTM D6778-06 POM0200 superseding ASTM D4181-00 POM200
Shapes specification:
ASTM D6100-11 S-POM0200

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com.