

TECAFORM® AH SD - Stock Shapes

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>test method</i>		<i>comment</i>
Modulus of elasticity (tensile test)	@ 73 °F	189,000	psi	ASTM D 638	1)	(1) Data obtained from public source
Tensile strength at yield	@ 73 °F	6,600	psi	ASTM D 638		(2) Data obtained from public source
Tensile strength at break	@ 73 °F	6,600	psi	ASTM D 638	2)	(3) Data obtained from public source
Elongation at yield	@ 73 °F	23	%	ASTM D 638	3)	(4) Data obtained from public source
Elongation at break		45	%	ASTM D 638		
Flexural strength		7,000	psi	ASTM D 790		
Modulus of elasticity (flexural test)		210,000	psi	ASTM D 790		
Compression modulus	@ 73 °F	160,000	psi	ASTM D 695	4)	
Impact strength (Izod)		1.8	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>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)		1.6*10 ⁻⁵	in/in/°F	-	4)	(4) Data obtained from public source
<i>Electrical properties</i>	<i>condition</i>	<i>value</i>		<i>test method</i>		<i>comment</i>
Specific surface resistance		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>test method</i>		<i>comment</i>
Moisture absorption	@ saturation, 73 °F	0.2	%	ASTM D 570		
Flammability (UL94)		HB		-		

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

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