

TECAFORM® AH ID Grey - Stock Shapes (rods, plates, tubes)

Chemical Designation

POM-C (Polyacetal (Copolymer))

Colour

grey

Density

1.48 g/cm³

Fillers

detectable filler

Main features

- metal detectable
- easy to machine
- excellent mechanical properties
- good wear properties
- low moisture absorption
- good dimensional stability

Target Industries

- food processing
- conveyor technology
- engineering for beverage filling systems
- pharmaceutical industry
- packaging and paper machinery

<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	450,000	psi	ASTM D 638	
Tensile strength at yield	@ 73 °F	9,500	psi	ASTM D 638	
Elongation at break (tensile test)	@ 73 °F	10	%	ASTM D 638	
Flexural strength	@ 73 °F	15,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73 °F	450,000	psi	ASTM D 790	
Compression strength	@ 73 °F, 1% strain	3,100	psi	ASTM D 695	
Compression strength	@ 73 °F, 10% strain	14,000	psi	ASTM D 695	
Compression modulus		300,000	psi	ASTM D 695	
Impact strength (Izod)	@ 73 °F	0.77	ft-lbs/in	ASTM D 256	
Rockwell hardness	M Scale	91		ASTM D 785	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Melting temperature		329	°F	ASTM D 2133	(1) publicly sourced data
Service temperature	Intermittent	285	°F	-	(2) publicly sourced data
Service temperature	Long Term	212	°F	-	(3) Injection Molded sample
Thermal expansion (CLTE)		7.7*10 ⁻⁵	in/in/°F	ASTM D 696	
<i>Electrical properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
surface resistivity		1.0*10 ¹²	Ω/square	-	
<i>Other properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Moisture absorption	@ 24 hrs, 73 °F	0.22	%	ASTM D 570	
Moisture absorption	@ saturation, 73 °F	0.65	%	ASTM D 570	

→ Resin specification:
ASTM D6778-06 POM0211 superseding ASTM D4181-00 POM211
Shapes specification:
ASTM D6100-11 S-POM211

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