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

Chemical Designation
POM-C (Polyacetal (Copolymer))

Colour
blue

Density
1.48 g/cm^3

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

Mechanical properties	condition	value	unit	test method	comment
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	

Thermal properties	condition	value	unit	test method		comment
Melting temperature		329	°F	ASTM D 2133		(1) publicly sourced data (2) publicly sourced data (3) Injection Molded sample
Service temperature	Intermittent	285	°F	-	1)	
Service temperature	Long Term	212	°F	-	2)	
Thermal expansion (CLTE)		7.7*10^{-5}	in/in/°F	ASTM D 696	3)	

Electrical properties	condition	value	unit	test method	comment
surface resistivity		1.0*10^{12}	Ω/square	-	

Other properties	condition	value	unit	test method	comment
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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