

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

Chemical Designation

POM-C (Polyacetal (Copolymer))

Colour

dark blue

Density

1.71 g/cm³

Fillers

detectable filler

Main features

- metal detectable
- x-ray opaque
- food grade blue
- good mechanical properties
- good machinability

Target Industries

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

Mechanical properties	condition	value	test method	comment
Modulus of elasticity (tensile test)		300,000	psi	ASTM D 638
Tensile strength at yield		7,500	psi	ASTM D 638
Elongation at break (tensile test)		12	%	ASTM D 638
Flexural strength		12,500	psi	ASTM D 790
Modulus of elasticity (flexural test)		460,000	psi	ASTM D 790
Compression strength	@ 10% deformation	12,650	psi	ASTM D 695
Compression strength	@ 1% deformation	1,600	psi	ASTM D 695
Compression modulus		240,000	psi	ASTM D 695
Impact strength (Izod)		0.68	ft-lbs/in	ASTM D 256
Rockwell hardness	M Scale	89		ASTM D 785
Thermal properties	condition	value	test method	comment
Melting temperature		329	°F	-
Deflection temperature	@ 66 psi	320	°F	ASTM D 648 1)
Deflection temperature	@ 264 psi	230	°F	ASTM D 648 2)
Service temperature	Long Term	212	°F	- 3)
Service temperature	short term	285	°F	- 4)
Thermal expansion (CLTE)		1.2*10 ⁻⁵	in/in/°F	- 5)
Electrical properties	condition	value	test method	comment
volume resistance		1.0*10 ¹⁴	Ω*cm	ASTM D 696 1)
Other properties	condition	value	test method	comment
Moisture absorption	@ 24 hrs.	0.13	%	ASTM D 570 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
				(5) Data obtained from public source

- Resin specification:
ASTM D6778-06 POM0200
- Shapes specification:
ASTM D6100-11 S-POM0200

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