

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	unit	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	unit	test method	comment
Melting temperature		329	°F	-	(1) Data obtained from public source
Deflection temperature	@ 66 psi	320	°F	ASTM D 648	(1) (2) Data obtained from public source
Deflection temperature	@ 264 psi	230	°F	ASTM D 648	(2) (3) Data obtained from public source
Service temperature	Long Term	212	°F	-	(3) (4) Data obtained from public source
Service temperature	short term	285	°F	-	(4) (5) Data obtained from public source
Thermal expansion (CLTE)		1.2*10 ⁻⁵	in/in/°F	-	(5)
Electrical properties	condition	value	unit	test method	comment
volume resistance		1.0*10 ¹⁴	Ω*cm	ASTM D 696	(1) (1) Data obtained from public source
Other properties	condition	value	unit	test method	comment
Moisture absorption	@ 24 hrs.	0.13	%	ASTM D 570	(1) (1) Data obtained from public source

→ Resin specification:
ASTM D6778-20 POM0200
Shapes specification:
ASTM D6100-17 S-POM0200 (only for Acetal shapes >0.062" thick)

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