

TECAFORM® AH UD blue - Stock Shapes

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		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	@ 1% deformation	1,600	psi	ASTM D 695	
Compression strength	@ 10% deformation	12,650	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	-	(1) Data obtained from public source
Deflection temperature	@ 264 psi	230	°F	ASTM D 648	(2) Data obtained from public source
Deflection temperature	@ 66 psi	320	°F	ASTM D 648	(3) Data obtained from public source
Service temperature	Long Term	212	°F	-	(4) Data obtained from public source
Service temperature	short term	285	°F	-	(5) Data obtained from public source
Thermal expansion (CLTE)		1.2*10 ⁻⁵	in/in/°F	-	
Electrical properties	condition	value		test method	comment
Volume resistivity		1.0*10 ¹⁴	Ω*cm	ASTM D 696	(1) Data obtained from public source
Other properties	condition	value		test method	comment
Moisture absorption	@ 24 hrs.	0.13	%	ASTM D 570	(1) Data obtained from public source

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

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at