

TECAFORM® AH UD blue - Stock Shapes

Chemical Designation

POM-C (Polyacetal (Copolymer))

Colour

dark blue

Density

1.61 g/cm³

Fillers

detectable filler

Main features

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

Target Industries

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

Mechanical properties	condition	value		test method	comment
Modulus of elasticity (tensile test)		400,000	psi	ASTM D 638	
Tensile strength at yield		8,450	psi	ASTM D 638	
Elongation at break		7.9	%	ASTM D 638	
Flexural strength		13,780	psi	ASTM D 790	
Modulus of elasticity (flexural test)		459,000	psi	ASTM D 790	
Compression strength	@ 10% deformation	12,650	psi	ASTM D 695	
Compression strength	@ 1% deformation	2,740	psi	ASTM D 695	
Compression modulus		264,000	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	@ 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)
Thermal expansion (CLTE)		1.2*10 ⁻⁵	in/in/°F	-	4)
Electrical properties	condition	value		test method	comment
Volume resistivity		1.0*10 ¹⁴	Ω*cm	ASTM D 696	1) (1) Data obtained from public source
Other properties	condition	value		test method	comment
Moisture absorption	@ 24 hrs.	0.2	%	-	1) (1) Data obtained from public source

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

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