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# TECAFORM® AH FG blue - Stock Shapes

## **Chemical Designation**

POM-C (Polyacetal (Copolymer))

## Colour

blue

## Density

1.41 g/cm<sup>3</sup>

## Main features

- → food grade blue
- → low moisture absorption
- → easily machinable to tight tolerance
- → good mechanical properties
- → good wear properties

## Target Industries

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

Mechanical properties	condition	value		test method		comment		
Modulus of elasticity (tensile test)	@ 73 °F	380,000	psi	ASTM D 638		(1) Data obtained from public source (2) Data obtained from public source (3) Data obtained from public source (4) Injection molded data (5) Injection molded data		
Tensile strength at yield	@ 73 °F	8,800	psi	ASTM D 638	_			
Tensile strength at break	@ 73 °F	9,700	psi	ASTM D 638	1)			
Elongation at yield	@ 73 °F	9	%	ASTM D 638	2)			
Elongation at break	@ 73 °F	25	%	ASTM D 638				
Flexural strength	@ 73 °F	11,000	psi	ASTM D 790				
Modulus of elasticity (flexural test)	@ 73 °F	360,000	psi	ASTM D 790				
Compression strength	@ 73 °F	4,500	psi	ASTM D 695				
Compression modulus	@ 73 °F	334,000	psi	ASTM D 695	3)			
Impact strength (Izod)	@ 73 °F	1.0	ft-lbs/in	ASTM D 256				
Rockwell hardness	M Scale	86		ASTM D 785				
Coefficient of friction	Dynamic, 40 psi, 50 fpm	0.21	%	ASTM D 3702	4)			
Wear rate	Against Steel, 40 psi, 50 fpm	65*10 <sup>-10</sup>	in³-min/ft-lbs-hr	ASTM D 3702	5)			
Thermal properties	condition	value		test method		comment		
Melting temperature		329	°F	ASTM D 2133				
Deflection temperature	@ 66 psi	316	°F	ASTM D 648				
Deflection temperature	@264 psi	230	°F	ASTM D 648				
Service temperature	Intermittent	285	°F	-		- -		
Service temperature	Long Term	195	°F	_				
Thermal expansion (CLTE)		4.7*10 <sup>-5</sup>	in/in/°F	ASTM D 696				
Electrical properties	condition	value		test method		comment		
Volume resistivity		1.0*10 <sup>-14</sup>	Ω/square	ASTM D 257		(1) Data obtained from public source (2) Data obtained from public source		
Dielectric strength		500	Ω*cm	ASTM D 149				
Dissipation factor	@ 60HZ, 73°F	0.001		-	1)			
Dielectric loss factor	@60 Hz, 70°	0.001		ASTM D 150				
Dielectric constant	@ 60HZ, 73°F, 50% RH	3.7		ASTM D 150	2)			
Other properties	condition	value		test method		comment		
Moisture absorption	@ 24 hrs, 73 °F	0.22	%	ASTM D 570		(1) estimated		
Moisture absorption	@ saturation, 73 °F	0.8	%	ASTM D 570				
Flammability (UL94)		HB			<u>-</u>	•		

<sup>→</sup> Resin specification: ASTM D6778-06 POM0211 superseding ASTM D4181-00 POM211 Shapes specification: ASTM D6400.41 S. POM211

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