

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

## 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
- → porosity free

## Target Industries

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

Mechanical properties	condition	value	unit	test method		comment
Modulus of elasticity (tensile test)	@ 73 °F	250,000	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 (tensile test)	@ 73 °F	9	%	ASTM D 638	2)	
Elongation at break (tensile test)	@ 73 °F	25	%	ASTM D 638		
Flexural strength	@ 73 °F	12,000	psi	ASTM D 790		
Modulus of elasticity (flexural test)	@ 73 °F	400,000	psi	ASTM D 790		
Compression strength	@ 73 °F, 1% strain	1,200	psi	ASTM D 695		
Compression strength	@ 73 °F, 10% strain	11,500	psi	ASTM D 695	3)	
Impact strength (Izod)	@ 73 °F	1.1	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	unit	test method		comment
Melting temperature		329	°F	-	1)	(1) publicly sourced data (2) publicly sourced data (3) publicly sourced data (4) publicly sourced data (5) publicly sourced data (6) publicly sourced data
Deflection temperature	@ 66 psi	316	°F	ASTM D 648	2)	
Deflection temperature	@264 psi	230	°F	ASTM D 648	3)	
Service temperature	Intermittent	285	°F	-	4)	
Service temperature	Long Term	195	°F	-	5)	
Thermal expansion (CLTE)		4.7*10 <sup>-5</sup>	in/in/°F	ASTM D 696	6)	
Electrical properties	condition	value	unit	test method		comment
volume resistance		1.0*10 <sup>-14</sup>	Ω*cm	ASTM D 257	1)	(1) publicly sourced data (2) publicly sourced data (3) publicly sourced data (4) publicly sourced data (5) publicly sourced data
Dielectric strength		500	V/mil	ASTM D 149	2)	
Dissipation factor	@ 60HZ, 73°F	0.001		-	3)	
Dielectric loss factor	@60 Hz, 70°	0.001		ASTM D 150	4)	
Dielectric constant	@ 60HZ, 73°F, 50% RH	3.7		ASTM D 150	5)	
Other properties	condition	value	unit	test method		comment
Moisture absorption	@ 24 hrs, 73 °F	0.22	%	ASTM D 570		
Moisture absorption	@ saturation, 73 °F	0.8	%	ASTM D 570		

<sup>→</sup> Resin specification: ASTM D6778-06 POM0211 superseding ASTM D4181-00 POM211 Shapes specification: ASTM D6100-11 S-POM211

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