

TECAFORM® AH FG blue - Stock Shapes

Chemical Designation

POM-C (Polyacetal (Copolymer))

Colour blue

Density

1.41 g/cm³

Main features

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

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		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	
Tensile strength at yield	@ 73 °F	8,800	psi	ASTM D 638		public source (3) Data obtained from public source (4) Injection molded data (5) Injection molded data	
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	12,000	psi	ASTM D 790			
Modulus of elasticity (flexural test)	@ 73 °F	400,000	psi	ASTM D 790			
Compression strength	@ 73 °F, 10% strain	11,500	psi	ASTM D 695	3)		
Compression strength	@ 73 °F, 1% strain	1,200	psi	ASTM D 695			
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 ⁻¹⁰	in³-min/ft-lbs-hi	r ASTM D 3702	5)		
Thermal properties	condition	value		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	@264 psi	230	°F	ASTM D 648	2)		
Deflection temperature	@ 66 psi	316	°F	ASTM D 648	3)		
Service temperature	Long Term	195	°F	-	4)		
Service temperature	Intermittent	285	°F	_	5)		
Thermal expansion (CLTE)	_	4.7*10 ⁻⁵	in/in/°F	ASTM D 696	6)		
Electrical properties	condition	value		test method		comment	
Volume resistivity		1.0*10 ⁻¹⁴	Ω/square	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	-	test method		comment	
Moisture absorption	@ saturation, 73 °F	0.8	%	ASTM D 570			
Moisture absorption	@ 24 hrs, 73 °F	0.22	%	ASTM D 570			
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Resin specification: ASTM D6778-06 POM0211 superseding ASTM D4181-00 POM211 Shapes specification: ASTM D6100-11 S-POM211

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Date: 2016/08/04

Version: A0



