

# TECAFORM® AH natural - Stock Shapes

### Chemical Designation

POM-C (Polyacetal (Copolymer))

Colour white

Density

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

## Main features

- good wear properties
- → low water absorption
- → good chemical resistance
- → easy to machine
- → high dimensional stability

### Target Industries

- → food technology
- → food processing
- → agricultural machinery
- construction industry
- → conveyor technology
- → automotive industry
- → gear manufacturing
- → packaging and paper machinery
- → heavy duty industry
- → process engineering

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Mechanical properties	condition	value		test method		comment
Modulus of elasticity (tensile test)						(1) Data obtained from public source
Tensile strength at yield	@ 73 °F	9,300	psi	ASTM D 638		(2) Data obtained from public source
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	40	%	ASTM D 638		
Flexural strength	@ 73 °F	13,000	psi	ASTM D 790		
Modulus of elasticity (flexural test)	@ 73 °F	400,000	psi	ASTM D 790		
Compression strength	@ 73 °F, 1% strain	2,500	psi	ASTM D 695		
Compression strength	@ 73 °F, 10% strain	12,000	psi	ASTM D 695		
Compression strength	@ 73 °F, 5 % strain	4,500	°F	ASTM D 695		
Compression modulus	@ 73°F	250,000	psi	ASTM D 695		
Impact strength (Izod)	@ 73 °F	1.0	ft-lbs/in	-		
Rockwell hardness	@ 73 °F M Scale	86	_	ASTM D 785		
Rockwell hardness	@ 73 °F, R scale	120		ASTM D 785		
Coefficient of friction	Dynamic 40 psi, 50 fpm	.21		ASTM D 3702		
Wear rate	40 psi, 50 fpm	65 x 10 <sup>-10</sup>	in³-min/ft-lbs	-hr ASTM D 3702		
Thermal properties	condition	value		test method		comment
elting temperature 329 °F -						(1) per UL746B
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	-	1)	
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 x 10 <sup>1</sup>	<sup>4</sup> Ω*cm	ASTM D 257	1)	(1) Data obtained from public
Dielectric strength		500	V/mil	ASTM D 149	2)	<ul> <li>source</li> <li>(2) Data obtained from public</li> </ul>
Dissipation factor	@ 60 Hz, 73 °F	.001	%	ASTM D 150	3)	source (3) Data obtained from public
Dielectric constant	@ 60 Hz, 73 °F, 50% RH	3.7	%	ASTM D 150	4)	source (4) Data obtained from public source
Other properties	condition	value		test method		comment
Moisture absorption	@ saturation, 73 °F	.80	%	ASTM D 570		(1) at 1.5mm thickness
Moisture absorption	@ 24 hrs, 73 °F	0.18	%	ASTM D 570		··· injection molded sample
Flammability (UL94)	UL 94	НВ	%		1)	

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

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