

DELRIN® 570 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

POM-H (Polyacetal (Homopolymer))

Colour

cream white

Density

1.56 g/cm³

Fillers

glass fibres

Main features

- → very good dimensional stability
- → excellent strength and stiffness
- → good machinability
- → very high creep resistant

Target Industries

- → automotive industry
- → construction industry
- → fixture construction
- → gear manufacturing

Mechanical properties	condition	value	unit	test method		comment
Modulus of elasticity (tensile test)	@ 73 °F	350,000	psi	ASTM D 638		
Tensile strength at yield	@ 73 °F	7,700	psi	ASTM D 638		-
Elongation at break (tensile test)	@ 73 °F	10	%	ASTM D 638		-
Flexural strength	@ 73 °F	14,500	psi	ASTM D 790		-
Modulus of elasticity (flexural test)	@ 73 °F	650,000	psi	ASTM D 790		- - -
Compression strength	@ 73 °F, 1% strain	1500	psi	ASTM D 695		
Compression strength	@ 73 °F, 10% strain	14,500	psi	ASTM D 695		
Notched impact strength (Izod)		0.90	ft-lbs/in	ASTM D 256		
Rockwell hardness	M Scale	87		ASTM D 785	_	.
Thermal properties	condition	value	unit	test method	_	comment
Melting temperature		347	°F	-	1)	(1) Injection molded data (2) Injection molded data (3) Data obtained from public source
Deflection temperature	@264 psi	311	°F	ASTM D 648	2)	
Deflection temperature	@ 66 psi	329	°F	ASTM D 648	3)	
Service temperature	Long Term	185	°F	-		
Service temperature	Intermittent	300	°F	-		
Thermal expansion (CLTE)		4.72*10 ⁻⁵	in/in/°F	-		
Electrical properties	condition	value	unit	test method		comment
surface resistivity	@ 73 °F	200e+15	Ω/sq	ASTM D 257	1)	(1) Injection molded data (2) Injection molded data (3) Injection molded data
Dielectric strength	@ 73 °F	452	V/mil	ASTM D 149	2)	
Dielectric constant	@ 100 MHz; 73°F	3.8		ASTM D 150	3)	
Other properties	condition	value	unit	test method		comment
Moisture absorption	@ 24 hrs, 73 °F	0.15	%	ASTM D 570		(1) Injection molded data (1.5mm thick)
Flammability (UL94)		НВ		-	1)	

[→] Resin specification: ASTM D6778-06 POM0110G20A22220 Z01 superceding ASTM D4181-00 POM110G20A29990, UM19, PM2.2, Y73, Z01 Shapes specification: ASTM D6100 POM0100G201124442

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com.

Date: 2016/06/21