

DELTRIN® 570 - Stock Shapes

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		test method	comment
Modulus of elasticity (tensile test)		340,000	psi	ASTM D 638	
Tensile strength at yield		8,700	psi	ASTM D 638	
Elongation at yield		10	%	ASTM D 638	
Notched impact strength (Izod)		0.80	ft-lbs/in	ASTM D 256	
Rockwell hardness	M Scale	81	%	ASTM D 785	
Thermal properties	condition	value		test method	comment
Melting temperature		347	°F	-	1) (1) Injection molded data
Deflection temperature	@264 psi	311	°F	ASTM D 648	2) (2) Injection molded data
Service temperature	Long Term	185	°F	-	
Service temperature	Intermittent	300	°F	-	
Electrical properties	condition	value		test method	comment
Specific surface resistance	@ 73 °F	200e+15	Ω	ASTM D 257	1) (1) Injection molded data
Dielectric strength	@ 73 °F	452	V/mil	ASTM D 149	2) (2) Injection molded data
Dielectric constant	@ 100 MHz; 73°F	3.8		ASTM D 150	3) (3) Injection molded data
Other properties	condition	value		test method	comment
Moisture absorption	@ 24 hrs, 73 °F	0.15	%	ASTM D 570	1) (1) Injection molded data
Flammability (UL94)		HB		-	1) (1.5mm thick)

→ Resin specification:
ASTM D6778-06 POM0110G20A22220 Z01 superceding ASTM D4181-00 POM110G20A29990, UM19, PM2.2, Y73, Z01
Shapes specification:
ASTM D 6100-11 S-POM0100G201125453

Material properties and averages can vary from one manufacturer to another. These properties are given as reference without any obligation or liability on behalf of Precision Punch and Plastics.