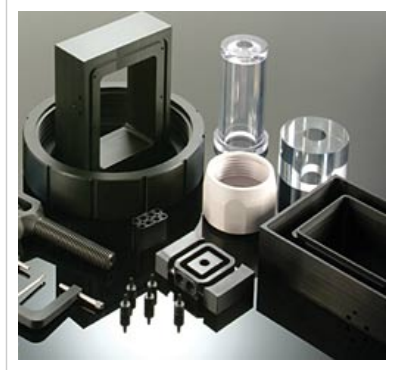


DELTRIN® 570 - 20% glass fiber filled

Compare DELTRIN 570

DELTRIN®570 Shapes manufactured by Ensinger are 20% glass filled materials intended for general industrial use. The material offers very high stiffness, low warpage, and low creep for superior part performance under stress.



- **Very good dimensional stability**
- **Glass fibers offer stiffness but not reinforcement**
- **Good machinability**

DELTRIN® 570 is used in a variety of industries such as automotive or construction where added strength and stiffness are desirable.

	Properties	Condition	Units	Value
	Chemical Designation			POM
Physical	Filler			Glass Fibres
	Density		g/cm ₃	1.56
	Tensile Modulus	@ 73 iF	PSI	350,000
	Tensile Strength @ Yld	@ 73 iF	PSI	7,700
	Tensile Strength @ Brk	@ 73 iF	PSI	7,700
	Shear Strength	@ 73 iF	PSI	
	Elongation @ Yld	@ 73 iF	%	10
	Elongation @ Brk	@ 73 iF	%	10
Mechanical	Flexural Modulus	@ 73 iF	PSI	650,000
	Flexural Strength	@ 73 iF	PSI	14,500
	Compressive Modulus	@ 73 iF	PSI	
	Compressive Strength	@ 73 iF, 10% strain	PSI	14,500
	Izod (charpy) Impact Strength	@ 73 iF	ft-lbs/in	0.90
	Rockwell Hardness	@ 73 iF	M (R) Scale	87
	Coefficient of Friction	Static		
	Coefficient of Friction	Dynamic, 40 PSI, 50 FPM		
	Wear (K) Factor		in ₂ -min/ft-lbs-hr	
	Limiting PV		psi-fpm	
	Vicat Softening Point		iF	
	Melting Temperature		iF	347
	Heat Deflection Temperature	@ 66	iF	329
	Heat Deflection Temperature	@ 264	iF	311
Thermal	Service Temperature	Intermittent	iF	300
	Service Temperature	Long Term	iF	185

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)	@ 73 °F	350,000	psi	ASTM D 638	
Tensile strength at yield	@ 73 °F	7,700	psi	ASTM D 638	
Elongation at break	@ 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, 10% strain	14,500	psi	ASTM D 695	
Compression strength	@ 73 °F, 1% strain	1500	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		test method	comment
Melting temperature		347	°F	-	1)
Deflection temperature	@264 psi	311	°F	ASTM D 648	2)
Deflection temperature	@ 66 psi	329	°F	ASTM D 648	3)
Service temperature	Intermittent	300	°F	-	
Service temperature	Long Term	185	°F	-	
Thermal expansion (CLTE)		4.72*10 ⁻⁵	in/in/°F	-	
Electrical properties	condition	value		test method	comment
Specific surface resistance	@ 73 °F	200e+15	Ω	ASTM D 257	1)
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		test method	comment
Moisture absorption	@ 24 hrs, 73 °F	0.15	%	ASTM D 570	(1) Injection molded data
Flammability (UL94)		HB		-	(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

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