

DELIN® 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	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	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
Deflection temperature	@ 66 psi	329 °F	ASTM D 648	3) (3) Data obtained from public source
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	test method	comment
surface resistivity	@ 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 D6100 POM0100G201124442

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