



Product Data Sheet & General Processing Conditions

ZOVGOV® P1700G6 Polysulfone (PSU) Glass Fiber UL94

Glass reinforced polysulfone is a rigid, tough material which maintains its properties over a wide temperature range. Additional attributes include dimensional stability, self-extinguishing behavior and good processing characteristics.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	30 %	30 %	
Specific Gravity	1.46	1.46	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0030 in/in	0.10 - 0.30 %	D 955
Water Absorption, 24 hrs @ 23°C	0.200 %	0.200 %	D 570
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.4 ft-lbs/in	75 J/m	D 256
unnotched 1/8 in (3.2 mm) section	8.5 ft-lbs/in	454 J/m	D 4812
Tensile Strength	16000 psi	110 MPa	D 638
Tensile Elongation	2.0 - 3.0 %	2.0 - 3.0 %	D 638
Tensile Modulus	1.20 x 10 ⁶ psi	8274 MPa	D 638
Flexural Strength	23500 psi	162 MPa	D 790
Flexural Modulus	1.10 x 10 ⁶ psi	7584 MPa	D 790
THERMAL			
Deflection Temperature @ 264 psi (1820 kPa)	365 °F	185 °C	D 648
Ignition Resistance*			
Flammability	V-0 @ 1/8 in	V-0 @ 3.0 mm	UL94
Flammability	5VA @ 1/8 in	5VA @ 3.0 mm	UL94

PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 18000 psi	69 - 124 MPa
Melt Temperature	630 - 700 °F	332 - 371 °C
Mold Temperature	200 - 300 °F	93 - 149 °C
Drying	4 hrs @ 275 °F	4 hrs @ 135 °C
Moisture Content	0.15 %	0.15 %
Dew Point	-25 °F	-32 °C

PROCESSING NOTES