

## Delrin® 570 (20% Glass Fiber Filled Acetal)

Delrin® 570 is a homopolymer acetal containing 20% glass fiber filler. Delrin® 570 has very high stiffness, low warpage, and low creep for superior performance at elevated temperatures.

Property	Test Method	Units	Delrin® 570
<b>Physical</b>			
Specific Gravity	ISO 1183	g/cc	1.56
Water Absorption	ISO 62, Similar to		
Equilibrium, 50% RH		%	0.1
Saturation, immersed		%	0.8
<b>Mechanical</b>			
Stress at Break	ISO 527-1/-2	psi	8,500
Strain at Break	ISO 527-1/-2	%	12
Tensile Modulus	ISO 527-1/-2	psi	870,000
Flexural Modulus	ISO 178	psi	725,000
Notched Izod Impact Strength	ISO 180/1A	ft-lb/in <sup>2</sup>	2.85
Notched Charpy Impact Strength	ISO 179/1eA		
-22 °F		ft-lb/in <sup>2</sup>	1.43
73 °F		ft-lb/in <sup>2</sup>	1.9
Unnotched Charpy Impact Strength	ISO 179/1eU		
-22 °F		ft-lb/in <sup>2</sup>	23.8
73 °F		ft-lb/in <sup>2</sup>	25.7
<b>Thermal</b>			
Deflection Temperature	ISO 75-1/-2		
@ 66 psi		°F	329
@ 264 psi		°F	266
Melting Temperature, 50 °F/min	ISO 11357-1/-3	°F	352
<b>Electrical</b>			
Surface Resistivity	IEC 60093	ohm	>10 <sup>15</sup>
Relative Permittivity	IEC 60250		
100 Hz			3.9
1 GHz			3.9
Volume Resistivity	IEC 60093	ohm-cm	10 <sup>15</sup>
Dissipation Factor, 1 GHz	IEC 60250	E-4	50

*NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.*