



Delrin®

acetal resin

Delrin® 570 NC000 20% Glass Filled Acetal

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

Property	Test Method	Units	Value
Mechanical			
Tensile Strength 5mm/min (0.2in/min)	ASTM D 638	MPa (kpsi)	59 (8.5)
Elongation at Break 5mm/min (0.2in/min)	ASTM D 638	%	12
Tensile Modulus 5mm/min (0.2in/min)	ASTM D 638	MPa (kpsi)	5920 (860)
Flexural Modulus	ASTM D 790	MPa (kpsi)	5000 (730)
Flexural Stress	ASTM D 790	MPa (kpsi)	
Strain 5%			74 (10.7)
Izod Impact	ASTM D 256	J/m (ft lb/in)	34 (0.6)
Unnotched Impact	ASTM D 4812	J/m (ft lb/in)	600 (11.2)
Thermal			
Heat Deflection Temperature 0.45MPa (66psi), Not Annealed	ASTM D 648	°C (°F)	169 (336)
1.8MPa (264psi), Not Annealed			144 (291)
CLTE, Flow 23 - 55C (73 - 130F)	ASTM E 831	E-4/K (E-4/F)	0.61 (0.34)
CLTE, Transverse 23 - 55C (73 - 130F)	ASTM E 831	E-4/K (E-4/F)	0.86 (0.48)
Melting Point	ASTM D 3418	°C (°F)	178 (352)
Flow			
Melt Flow Rate 1.05kg at 190C	ASTM D 1238	g/10 min	4

Contact DuPont for MSDS, general guides and/or additional information about ventilation, handling, purging, drying, etc.
Mechanical properties measured at 23°C (73°F) unless otherwise stated.

980401UC17

The data listed here fall within the normal range of product properties but they should not be used to establish specification limits nor used alone as the basis of design. The DuPont Company assumes no obligation or liability for any advice furnished by it or for results obtained with respect to this information. All such advice is given and accepted at the buyer's risk. The disclosure of information herein is not a license to operate under, or a recommendation to infringe, any patent of DuPont or others. DuPont warrants that the use or sale of any material which is described herein and is offered for sale by DuPont does not infringe any patent covering the material itself, but does not warrant against infringement by reason of the use thereof in combination with the other materials or in the operation of any process. CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement", H-50102.

Dial DuPont First (800) 441-0575 • Automotive Inquiries (800) 533-1313

Delrin® 570 NC000

Property	Test Method	Units	Value
Electrical			
Surface Resistivity	ASTM D 257	ohm	2 E15
Volume Resistivity	ASTM D 257	ohm cm	8 E14
Dielectric Strength, Short Time 3.2mm (0.126in)	ASTM D 149	kV/mm (V/mil)	17.8 (450)
Dielectric Constant 1E6 Hz	ASTM D 150		3.8
Dissipation Factor 1E6 Hz	ASTM D 150		0.006
Flammability			
UL94 Rating at Min. Thickness			HB
UL94 Min. Thickness Tested		mm (in)	1.47 (0.058)
Other			
Specific Gravity	ASTM D 792		1.56
Water Absorption Equilibrium 50%RH	ASTM D 570	%	0.2
Immersion 24hr			0.25
Saturation			1.0
Mold Shrinkage Flow, 24hrs, 3.2mm (0.126in)	ASTM D 955	%	0.8-1.1
Transverse, 24hrs, 3.2mm (0.126in)			1.0-1.3
Processing			
Melt Temperature Range		°C (°F)	210-220 (410-430)
Mold Temperature Range		°C (°F)	80-100 (175-210)
Processing Moisture Content		%	<0.1

Contact DuPont for MSDS, general guides and/or additional information about ventilation, handling, purging, drying, etc.
Mechanical properties measured at 23°C (73°F) unless otherwise stated.

980401UC17

The data listed here fall within the normal range of product properties but they should not be used to establish specification limits nor used alone as the basis of design. The DuPont Company assumes no obligation or liability for any advice furnished by it or for results obtained with respect to this information. All such advice is given and accepted at the buyer's risk. The disclosure of information herein is not a license to operate under, or a recommendation to infringe, any patent of DuPont or others. DuPont warrants that the use or sale of any material which is described herein and is offered for sale by DuPont does not infringe any patent covering the material itself, but does not warrant against infringement by reason of the use thereof in combination with the other materials or in the operation of any process. CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement", H-50102.

Dial DuPont First (800) 441-0575 • Automotive Inquiries (800) 533-1313