



Delrin®

acetal resin

Delrin® 100T NC010

Delrin® 100T NC010 is a toughened, high viscosity acetal homopolymer grade with improved impact resistance.

Property	Test Method	Units	Value
Mechanical			
Yield Stress	ISO 527-1/-2	MPa	52
Yield Strain	ISO 527-1/-2	%	26
Nominal Strain at Break	ISO 527-1/-2	%	>50
Strain at Break 50mm/min	ISO 527-1/-2	%	75
Tensile Modulus	ISO 527-1/-2	MPa	1900
Flexural Modulus	ISO 178	MPa	1800
Notched Izod Impact 23C	ISO 180/1A	kJ/m ²	20
Notched Charpy Impact -30C	ISO 179/1eA	kJ/m ²	14
23C			25
Unnotched Charpy Impact -30C	ISO 179/1eU	kJ/m ²	NB
23C			NB
Thermal			
Deflection Temperature 0.45MPa	ISO 75-1/-2	°C	160
1.80MPa			80
1.80MPa, Annealed			85
Melting Temperature	ISO 3146C	°C	178
Flow			
Melt Flow Rate 190C, 2.16kg	ISO 1133	g/10 min	2.0

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.

020702/991103

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. Caution: Do not use this product in medical applications involving permanent implantation in the human body. For other medical applications see "DuPont Medical Caution Statement", H-51459 or H-50102.

Start with DuPont Engineering Polymers - www.dupont.com/enggpolymer

Delrin® 100T NC010

Property	Test Method	Units	Value
Electrical			
Relative Permittivity 1E6 Hz, 1mm	IEC 60250		3.1
Dissipation Factor 1E6 Hz, 1mm	IEC 60250	E-4	90
CTI 1mm	IEC 60112	V	600
Other			
Density	ISO 1183	kg/m3	1370
Hardness, Rockwell	ISO 2039/2		Đ
Humidity Absorption Equilibrium 50%RH	ISO 62, Similar to	%	0.3
Water Absorption Saturation, immersed	ISO 62, Similar to	%	0.9
Processing			
Melt Temperature Range		°C	200-210
Melt Temperature Optimum		°C	205
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C	80
Processing Moisture Content		%	<0.05

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.

020702/991103

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. Caution: Do not use this product in medical applications involving permanent implantation in the human body. For other medical applications see "DuPont Medical Caution Statement", H-51459 or H-50102.

Start with DuPont Engineering Polymers - www.dupont.com/enggpolymer

