



# Delrin®

acetal resin

PRELIMINARY DATA

## Delrin® 510GR NC000

Property	Test Method	Units	Value
<b>Mechanical</b>			
Stress at Break 5mm/min	ISO 527-1/-2	MPa	95
Strain at Break 5mm/min	ISO 527-1/-2	%	4.3
Tensile Modulus 1mm/min	ISO 527-1/-2	MPa	5500
Flexural Modulus	ISO 178	MPa	4800
Notched Izod Impact	ISO 180/1A	kJ/m2	4
Notched Charpy Impact -30C	ISO 179/1eA	kJ/m2	5
23C			5
Unnotched Charpy Impact -30C	ISO 179/1eU	kJ/m2	60
23C			48
<b>Thermal</b>			
Deflection Temperature 0.45MPa	ISO 75-1/-2	°C	174
1.80MPa			164
Melting Temperature	ISO 3146C	°C	178
<b>Flammability</b>			
Limited Oxygen Index	ISO 4589	%	21
<b>Other</b>			
Density	ISO 1183	kg/m3	1490
Humidity Absorption	ISO 62, Similar to	%	0.16
Water Absorption	ISO 62, Similar to	%	
Equilibrium 50%RH			1.1

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.

**The above data are preliminary and are subject to change as additional data are developed on subsequent lots.**

030424/991018

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.

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Property	Test Method	Units	Value
<b>Processing</b>			
Melt Temperature Range		°C	210-220
Drying Time		h	4
Drying Temperature		°C	80
Processing Moisture Content		%	<0.1
Hold Pressure Range		MPa	80-100

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