



Delrin®

acetal resin

PRELIMINARY DATA

Delrin® 911AL NC010

Lubricated Acetal Resin For Dimensionally Stable Parts

Delrin® 911AL (formerly DE20028) is a new low wear/low friction grade with dimensional stability for applications requiring precision in molded parts. Delrin® 911AL is a low viscosity resin with excellent thermal stability.

Property	Test Method	Units	Value
Mechanical			
Yield Stress	ISO 527-1/-2	MPa (kpsi)	70 (10.1)
Yield Strain	ISO 527-1/-2	%	9
Nominal Strain at Break	ISO 527-1/-2	%	22
Tensile Modulus	ISO 527-1/-2	MPa (kpsi)	3200 (460)
Flexural Modulus	ISO 178	MPa (kpsi)	3200 (460)
Notched Izod Impact	ISO 180/1A	kJ/m2	
-40°C (-40°F)			6
23°C (73°F)			7
Notched Charpy Impact	ISO 179/1eA	kJ/m2	
-40°C (-40°F)			5
23°C (73°F)			6
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
0.45MPa			162 (324)
1.80MPa			101 (214)
Melting Temperature	ISO 3146C	°C (°F)	178 (352)
Flow			
Melt Flow Rate	ISO 1133	g/10 min	
190°C, 2.16kg			24
Other			
Density	ISO 1183	kg/m3 (g/cm3)	1400 (1.4)
Mold Shrinkage		%	
Flow, 4mm ISO bar			1.6

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
Test temperatures are 23°C unless otherwise stated.

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

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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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Product Information

Delrin® 911AL NC010

Property	Test Method	Units	Value
Processing			
Melt Temperature Range		°C (°F)	200-215 (390-420)
Mold Temperature Range		°C (°F)	60-100 (140-195)
Hold Pressure Range		MPa (kpsi)	80-100 (11.6-14.5)

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