

DELTRIN® DS100 NC000

DELTRIN® DS100 NC000 is an unreinforced, high viscosity acetal resin for injection moulding. It is well suited for application of DuPont™ DELTRIN® Decorating Solutions with excellent paintability and mechanical properties.

Properties	Test method	Units	Value
Mechanical			
Yield stress	ISO 527-1/-2	MPa	70
Nominal strain at break	ISO 527-1/-2	%	42
Yield strain	ISO 527-1/-2	%	22
Tensile modulus	ISO 527-1/-2	MPa	2800
Charpy impact strength (notched)	ISO 179/1eA	kJ/m ²	12
Thermal			
Deflection temperature – 1.80 MPa	ISO 75-1/-2	°C	100
Melting temperature – 10°C/min	ISO 11357-1/-3	°C	178
Rheological			
Melt mass-Flow rate – 190°C, 2.16 kg	ISO 1133	g/10 min	2.2
Other			
Density	ISO 1183	kg/m ³	1420
Processing			
Melt temperature range		°C	210-220
Melt temperature optimum		°C	215
Mould temperature range		°C	80-100
Mould temperature optimum		°C	90
Drying time, dehumidified dryer		h	4
Drying temperature		°C	80
Processing moisture content		%	<0.2
Hold pressure range		MPa	75-100

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

ISO Mechanical properties measured at 4.0 mm, ISO Electrical properties measured at 2.0 mm unless otherwise stated.

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.

The information provided in this documentation 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 nor 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”.



DELIN® DS500 NC000

DELIN® DS500 NC000 is an unreinforced, medium viscosity acetal resin for injection moulding. It is well suited for application of DuPont™ DELIN® Decorating Solutions with excellent paintability and mechanical properties.

Properties	Test method	Units	Value
Mechanical			
Yield stress	ISO 527-1/-2	MPa	69
Nominal strain at break	ISO 527-1/-2	%	27
Yield strain	ISO 527-1/-2	%	13
Tensile modulus	ISO 527-1/-2	MPa	3000
Charpy impact strength (notched)	ISO 179/1eA	kJ/m²	8
Thermal			
Melting temperature – 10°C/min	ISO 11357-1/-3	°C	178
Rheological			
Melt mass-Flow rate – 190°C, 2.16 kg	ISO 1133	g/10 min	14
Other			
Density	ISO 1183	kg/m³	1420
Processing			
Melt temperature range		°C	210-220
Melt temperature optimum		°C	215
Mould temperature range		°C	80-100
Mould temperature optimum		°C	90
Drying time, dehumidified dryer		h	4
Drying temperature		°C	80
Processing moisture content		%	<0.2
Hold pressure range		MPa	80-100

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DELTRIN® DS900 NC000

DELTRIN® DS900 NC000 is an unreinforced, low viscosity acetal resin for injection moulding. It is well suited for application of DuPont™ DELTRIN® Decorating Solutions with excellent paintability and mechanical properties.

Properties	Test method	Units	Value
Mechanical			
Yield stress	ISO 527-1/-2	MPa	71
Nominal strain at break	ISO 527-1/-2	%	20
Yield strain	ISO 527-1/-2	%	12
Tensile modulus	ISO 527-1/-2	MPa	3200
Charpy impact strength (notched)	ISO 179/1eA	kJ/m ²	6.3
Thermal			
Melting temperature – 10°C/min	ISO 11357-1/-3	°C	178
Rheological			
Melt mass-Flow rate – 190°C, 2.16 kg	ISO 1133	g/10 min	24
Other			
Density	ISO 1183	kg/m ³	1420
Processing			
Melt temperature range		°C	210-220
Melt temperature optimum		°C	215
Mould temperature range		°C	80-100
Mould temperature optimum		°C	90
Drying time, dehumidified dryer		h	4
Drying temperature		°C	80
Processing moisture content		%	<0.2
Hold pressure range		MPa	80-100

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DELIN® DS500M NC000

DELIN® DS500M NC000 is a medium viscosity acetal resin for injection moulding. It is well suited for application of DuPont™ DELIN® Decorating Solutions with good plating performance and excellent chemical resistance.

Properties	Test method	Units	Value
Mechanical			
Yield stress	ISO 527-1/-2	MPa	68
Nominal strain at break	ISO 527-1/-2	%	27
Yield strain	ISO 527-1/-2	%	13
Tensile modulus	ISO 527-1/-2	MPa	3100
Charpy impact strength (notched)	ISO 179/1eA	kJ/m²	8
Thermal			
Melting temperature – 10°C/min	ISO 11357-1/-3	°C	178
Rheological			
Melt mass-Flow rate – 190°C, 2.16 kg	ISO 1133	g/10 min	14
Other			
Density	ISO 1183	kg/m³	1400
Processing			
Melt temperature range		°C	205-215
Melt temperature optimum		°C	210
Mould temperature range		°C	80-100
Mould temperature optimum		°C	90
Drying time, dehumidified dryer		h	4
Drying temperature		°C	80
Processing moisture content		%	<0.2
Hold pressure range		MPa	80-100

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DELTRIN® DS900M NC000

DELTRIN® DS900M NC000 is a low viscosity acetal resin for injection moulding. It is well suited for application of DuPont™ DELTRIN® Decorating Solutions with good plating performance and excellent chemical resistance.

Properties	Test method	Units	Value
Mechanical			
Yield stress	ISO 527-1/-2	MPa	67
Nominal strain at break	ISO 527-1/-2	%	20
Yield strain	ISO 527-1/-2	%	11
Tensile modulus	ISO 527-1/-2	MPa	3300
Charpy impact strength (notched)	ISO 179/1eA	kJ/m²	7
Thermal			
Deflection temperature – 1.80 MPa	ISO 75-1/-2	°C	97
Melting temperature – 10°C/min	ISO 11357-1/-3	°C	178
Rheological			
Melt mass-Flow rate – 190°C, 2.16 kg	ISO 1133	g/10 min	22
Other			
Density	ISO 1183	kg/m³	1400
Processing			
Melt temperature range		°C	205-215
Melt temperature optimum		°C	210
Mould temperature range		°C	80-100
Mould temperature optimum		°C	90
Drying time, dehumidified dryer		h	4
Drying temperature		°C	80
Processing moisture content		%	<0.2
Hold pressure range		MPa	75-100

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