

Delrin® 1700SL NCo10

ACETAL RESIN

Product Description

Delrin® 1700SL is a very high flow acetal homopolymer with special lubricants for applications requiring extremely low coefficient of friction against itself and other plastics. It provides dimensional stability for precision parts.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Additive	• Lubricant
Features	• Good Wear Resistance • Low Friction • Homopolymer • Low Viscosity
RoHS Compliance	• Contact Manufacturer
Appearance	• Natural Color
Part Marking Code (ISO 11469)	• >POM-S<
Resin ID (ISO 1043)	• POM-S
Product Category	• Low Wear and Friction Resins • Unreinforced Resins

Physical	Nominal Value Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	36 g/10 min	ISO 1133
Molding Shrinkage		Internal Method
Flow	0.020 in/in	
Across Flow	0.021 in/in	
Across Flow ²	2.2 %	
Flow ³	2.2 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (73°F)	439000 psi	ISO 527-2
Tensile Stress (Yield, 73°F)	9570 psi	ISO 527-2
Tensile Strain (Yield, 73°F)	8.0 %	ISO 527-2
Nominal Tensile Strain at Break (73°F)	11 %	ISO 527-2
Flexural Modulus (73°F)	447000 psi	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.6 ft-lb/in ²	ISO 179/1eA

Thermal	Nominal Value Unit	Test Method
CLTE		ISO 11359-2
Flow: 73 to 131°F	0.000061 in/in/°F	
Transverse: 73 to 131°F	0.000061 in/in/°F	

Flammability	Nominal Value Unit	Test Method
Flame Rating - UL		UL 94
0.0295 in	HB	
0.0591 in	HB	
0.118 in	HB	
Flammability Classification		IEC 60695-11-10, -20
0.0295 in	HB	
0.0591 in	HB	
0.118 in	HB	

Injection	Nominal Value Unit
Drying Temperature	176 °F
Drying Time	4.0 hr
Suggested Max Moisture	0.20 %
Processing (Melt) Temp	392 to 419 °F

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To find out more, visit plastics.dupont.com or contact the nearest DuPont location.

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Injection	Nominal Value Unit
Melt Temperature, Optimum Injection Molding	401 °F
Mold Temperature	140 to 212 °F
Mold Temperature, Optimum Injection Molding	176 °F

Notes

¹ Typical properties: these are not to be construed as specifications.

² 100mm diameter pulley, Weld Direction

³ 100mm diameter pulley, Gate Direction

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 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, additives or pigments 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. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. CAUTION: Do not use DuPont materials in medical application involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of DuPont POLICY Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications ... H-50102-3.

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