

# Delrin® 100TL NC010

ACETAL RESIN

DuPont Performance Polymers

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Teflon® Lubricated High Viscosity Acetal Homopolymer with Low Wear and Low Friction

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing - Injection Molding (English)</a> • <a href="#">Typical Processing for DuPont Engineering Polymers (English)</a>
Search for UL Yellow Card	• <a href="#">DuPont Performance Polymers</a> • <a href="#">Delrin®</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• PTFE Micropowder, 1.5% Filler by Weight
Additive	• Lubricant • Mold Release
Features	• Lubricated
Uses	• Profiles • Sheet
Forms	• Pellets
Processing Method	• Extrusion • Injection Molding • Profile Extrusion • Sheet Extrusion
Part Marking Code (ISO 11469)	• >POM-SD<
Resin ID (ISO 1043)	• POM-SD

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.43 g/cm <sup>3</sup>	1.43 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2 g/10 min	2.2 g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.7 %	1.7 %	
Flow	1.8 %	1.8 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	435000 psi	3000 MPa	ISO 527-2
Tensile Stress (Yield)	10300 psi	71.0 MPa	ISO 527-2
Tensile Strain (Yield)	25 %	25 %	ISO 527-2
Nominal Tensile Strain at Break	35 %	35 %	ISO 527-2
Flexural Modulus	406000 psi	2800 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.8 ft·lb/in <sup>2</sup>	8.0 kJ/m <sup>2</sup>	
73°F (23°C)	4.8 ft·lb/in <sup>2</sup>	10 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	71 ft·lb/in <sup>2</sup>	150 kJ/m <sup>2</sup>	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	316 °F	158 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	203 °F	95.0 °C	ISO 75-2/A
Melting Temperature <sup>3</sup>	352 °F	178 °C	ISO 11357-3
CLTE			ISO 11359-2
Flow	6.1E-5 in/in/°F	1.1E-4 cm/cm/°C	
Transverse	6.1E-5 in/in/°F	1.1E-4 cm/cm/°C	



#### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 10°C/min



---

Where to Buy

---

Supplier

**DuPont Performance Polymers**

Wilmington, DE USA  
**Telephone:** 302-999-4592  
**Web:** <http://plastics.dupont.com/>

---

Distributor

**Biesterfeld Plastic GmbH**

*Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by country.*

**Telephone:** +49-40-32008-0

**Web:** <http://www.biesterfeld-plastic.com/>

**Availability:** Algeria, Austria, Belgium, Bosnia and Herzegovina, Brazil, Bulgaria, Croatia, Cyprus, Czech Republic, Egypt, France, Germany, Greece, Hungary, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland, Tunisia, Turkey

**CCC Plastics**

**Telephone:** 800-465-6917

**Web:** <http://www.cccplastics.com/>

**Availability:** Canada

**PolyOne Distribution**

*PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.*

**Telephone:** 800-894-4266

**Web:** <http://polyonedistribution.com/>

**Availability:** Global

