

Product Texts

Common features of Delrin® acetal resins include mechanical and physical properties such as high mechanical strength and rigidity, excellent fatigue and impact resistance, as well as resistance to moisture, gasoline, lubricants, solvents, and many other neutral chemicals. Delrin® acetal resins also have excellent dimensional stability and good electrical insulating characteristics. They are naturally resilient, self-lubricating, and available in a variety of colors and speciality grades.

Delrin® acetal resin typically is used in demanding applications in the automotive, domestic appliances, sports, industrial engineering, electronics, and consumer goods industries.

Delrin® FG500SC is a masterbatch of 20% silicone fluid in Delrin® FG500P. It is designed for cube-blending with any grade of Delrin® for applications requiring low wear and friction against itself and other plastics. It has been developed for applications in contact with food.

The below data reflect the properties of a 10% Delrin® FG500SC NC010 letdown in Delrin® FG500P NC010 blend.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3000	MPa	ISO 527
^[C] Yield stress	66	MPa	ISO 527
^[C] Yield strain	21	%	ISO 527
^[C] Nominal strain at break	40	%	ISO 527
^[C] Charpy impact strength, +23°C	270	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	8.5	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	176	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	96	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	158	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	100	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1410	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Features

Blending Resin

Delivery form

Pellets, Natural Color

Certifications

Food contact

Additives

Lubricants, Release agent

Regional Availability

North America, Europe, Asia Pacific, South and Central America

Other text information**Injection molding****PROCESSING**

As a first indication, please use molding parameters of the product with which Delrin® FG500SC is blended.