

Delrin® 100PE NC010A

POM

Delrin

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	2.5	g/10min	ISO 1133
Temperature	190	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	2.2	%	ISO 294-4, 2577
Molding shrinkage, normal	2.0	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	2900	MPa	ISO 527
Yield stress	70	MPa	ISO 527
Yield strain	22	%	ISO 527
Nominal strain at break	45	%	ISO 527
Flexural modulus, 23°C	2600	MPa	ISO 178
Tensile creep modulus, 1h	2700	MPa	ISO 899-1
Tensile creep modulus, 1000h	1500	MPa	ISO 899-1
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	14	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	10	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	178	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	92	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2
Other properties			
Water absorption	1.4	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1420	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding, Other Extrusion

Delivery form

Pellets, Natural Color

Special Characteristics

High impact or impact modified

Features

Creep Resistance, Fatigue Resistance, Homopolymer

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa