

Delrin® 111P NC010

POM

Delrin

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	1	g/10min	ASTM D 1238
Temperature	190	°C	-
Load	1.05	kg	-
Mold Shrinkage, MD	0.0195	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0185	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	3000	MPa	ASTM D 638
Tensile Strength	72	MPa	ASTM D 638
Tensile Strength at Yield	72	MPa	ASTM D 638
Elongation at Yield	21	%	ASTM D 638
Elongation at Break	73	%	ASTM D 638
Flexural Modulus	2970	MPa	ASTM D 790
Rockwell Hardness	R 121	-	ASTM D 785
Izod Impact notched, 1/8 in	96	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	110	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	110	E-6/K	ASTM D 696
DTUL @ 66 psi	169	°C	ASTM D 648
DTUL @ 264 psi	110	°C	ASTM D 648
Melting Temperature	178	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	18	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.005	-	ASTM D 150
Dielectric Constant, 1 MHz	3.7	-	ASTM D 150
Surface Resistivity	6E14	Ohm	ASTM D 257
Volume Resistivity	8E14	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.3	%	ASTM D 570
Density	1420	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding, Film Extrusion, Pipe/Tube Extrusion, Profile Extrusion, Sheet Extrusion, Wire/Cable Extrusion, Other Extrusion

Delivery form

Pellets, Natural Color

Additives

Lubricants, Release agent

Special Characteristics

High impact or impact modified

Features

Creep Resistance, Fatigue Resistance, Low Warpage, Thermal Stability, Weldable, Homopolymer

Regional Availability

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