

Delrin® 511P NC010

POM

Delrin

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	7	g/10min	ASTM D 1238
Temperature	190	°C	-
Load	1.05	kg	-
Mold Shrinkage, MD	0.0165	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0175	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data			
Tensile Modulus	3380	MPa	ASTM D 638
Tensile Strength	72	MPa	ASTM D 638
Tensile Strength at Yield	72	MPa	ASTM D 638
Elongation at Yield	11	%	ASTM D 638
Elongation at Break	33	%	ASTM D 638
Flexural Modulus	3300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	73	J/m	ASTM D 256
Thermal properties			
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	120	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	120	E-6/K	ASTM D 696
DTUL @ 66 psi	169	°C	ASTM D 648
DTUL @ 264 psi	114	°C	ASTM D 648
Melting Temperature	178	°C	ASTM D 3418
Electrical properties			
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	3E14	Ohm	ASTM D 257
Volume Resistivity	7E14	Ohm*cm	ASTM D 257
Other properties			
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, Casting

Delivery form

Pellets, Natural Color

Additives

Lubricants, Release agent

Features

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

Applications

Automotive

Regional Availability

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