

Delrin® 300ATB BK000

POM-CD

Delrin

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	1	g/10min	ISO 1133
Temperature	190	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	1.7	%	ISO 294-4, 2577
Molding shrinkage, normal	1.5	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Stress at break	51	MPa	ISO 527
Strain at break	18	%	ISO 527
Charpy impact strength, +23°C	170	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	120	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	6	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	11	kJ/m ²	ISO 180/1A
Rockwell hardness	M 75	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	178	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	-70	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	70	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	135	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	120	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	120	E-6/K	ISO 11359-1/-2
Burning rate, FMVSS, Thickness 1 mm	25	mm/min	ISO 3795 (FMVSS 302)

Electrical properties	Value	Unit	Test Standard
Other Standards^{S1}			
Surface Resistivity	30000	Ohm	ASTM D 4496
Volume Resistivity	100000	Ohm*cm	ASTM D 4496

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Density	1410	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	200 - 210	°C	-
Mold temperature	40 - 60	°C	-
Holding pressure	60 - 80	MPa	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	75 - 85	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	195 - 205	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Black

Special Characteristics

High impact or impact modified

Features

Fatigue Resistance, Homopolymer

Chemical Resistance

General Chemical Resistance, Solvent Resistance

Applications

Automotive, Electrical and Electronical, Sports Equipment

Regional Availability

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