Delrin®

acetal resin

PRELIMINARY DATA

Delrin® 300AT BK000

Antistatic, Toughened Acetal

Delrin® 300AT (formerly DE9497 BK000) is a new grade with moderate surface conductivity, designed to aid static dissipation of electric charge. It is toughened for better impact properties.

Property	Test Method	Units	Value
Mechanical			
Yield Stress	ISO 527-1/-2	MPa (kpsi)	40 (5.8)
Yield Strain	ISO 527-1/-2	%	13
Tensile Modulus	ISO 527-1/-2	MPa (kpsi)	2100 (300)
Flexural Modulus	ISO 178	MPa (kpsi)	2100 (300)
Notched Izod Impact	ISO 180/1A	kJ/m^2	7.7
Notched Charpy Impact	ISO 179/1eA	kJ/m^2	8
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
0.45MPa			135 (275)
1.80MPa			70 (158)
Melting Temperature	ISO 3146C	°C (°F)	178 (352)
Rheological			
Melt Flow Rate	ISO 1133	g/10 min	
190°C, 2.16kg			2.3

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
Test temperatures are 23°C unless otherwise stated.

Optimum resistivity values will be obtained using a mold temperature between 80-100C with a medium fill rate.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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Delrin® 300AT BK000

Property	Test Method	Units	Value
Electrical			
Surface Resistivity	IEC 60093	ohm	1E05
Volume Resistivity	IEC 60093	ohm m	1E03
Other			
Density	ISO 1183	kg/m^3 (g/cm^3)	1410 (1.41)
Mold Shrinkage		%	
Normal, 4mm ISO bar			1.5
Parallel, 4mm ISO bar			1.7
Processing			
Melt Temperature Range		°C (°F)	200-210 (390-410)
Mold Temperature Range		°C (°F)	80-100 (175-210)
Processing Moisture Content		%	<0.05

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