

DuPont Performance Polymers Delrin® 300ATB BK000 Acetal Homopolymer (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Delrin® 300ATB BK000 is a filled, medium viscosity, toughened acetal homopolymer for injection molding. It is well suited for antistatic applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-300ATB-BK000-Acetal-Homopolymer-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	Normal
	@Diameter 4.00 mm	@Diameter 0.157 in	
	0.017 cm/cm	0.017 in/in	Parallel
	@Diameter 4.00 mm	@Diameter 0.157 in	
Melt Flow	2.3 g/10 min	2.3 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	16 %	16 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	2.30 GPa	334 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	7.70 kJ/m ²	3.66 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1e+05 @Temperature 23.0 °C	1e+05 @Temperature 73.4 °F	IEC 60093
Surface Resistance	1e+05 @Temperature 23.0 °C	1e+05 @Temperature 73.4 °F	IEC 60093

Processing Properties	Metric	English	Comments
Melt Temperature	205 °C	401 °F	Optimum; Injection Molding
	200 - 210 °C	392 - 410 °F	Injection Molding
Mold Temperature	90.0 °C	194 °F	optimum; Injection Molding
	80.0 - 100 °C	176 - 212 °F	Injection Molding
Drying Temperature	80.0 °C	176 °F	Injection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	Injection Molding
Moisture Content	<= 0.050 %	<= 0.050 %	Injection Molding

Descriptive Properties	Value	Comments
Appearance	Black Color	
Forms	Pellets	
Generic	Acetal (POM) Homopolymer	
Material Status	Preliminary Data	
Polymer Family	POM	
Polymer Type	POM Homopolymer	
Processing Method	Injection Molding	
Product Category	Static Dissipative Resins	

Descriptive Properties	Toughened Resins Value	Comments
Region Available - Global	Yes	
RoHS Compliance	Contact Manufacturer	

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