

DuPont Performance Polymers Delrin® FG400MTD BLA079 Acetal (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Delrin® FG400MTD BLA079 is a metal filled, medium viscosity acetal copolymer for injection molding. It is detected in metal detectors. It has been developed for consideration into applications such as parts for the food industry. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-FG400MTD-BLA079-Acetal-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.017 cm/cm @Thickness 2.00 mm	0.017 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.016 cm/cm @Thickness 2.00 mm	0.016 in/in @Thickness 0.0787 in	ISO 294-4
Melt Flow	17 g/10 min @Load 2.16 kg, Temperature 190 °C	17 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	61.0 MPa @Temperature 23.0 °C	8850 psi @Temperature 73.4 °F	ISO 527
Elongation at Yield	8.0 % @Temperature 23.0 °C	8.0 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	2.80 GPa @Temperature 23.0 °C	406 ksi @Temperature 73.4 °F	ISO 527
Flexural Modulus	2.70 GPa @Temperature 23.0 °C	392 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	7.00 J/cm ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	500 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	278 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1/-2
	@Temperature -40.0 - 23.0 $^{\circ}\text{C}$	@Temperature -40.0 - 73.4 $^{\circ}\text{F}$	
	500 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	278 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	@Temperature 23.0 - 55.0 $^{\circ}\text{C}$	@Temperature 73.4 - 131 $^{\circ}\text{F}$	ISO 11359-1/-2
	500 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	278 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1/-2
	@Temperature 55.0 - 100 $^{\circ}\text{C}$	@Temperature 131 - 212 $^{\circ}\text{F}$	
100 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$		
CTE, linear, Transverse to Flow	@Temperature -40.0 - 23.0 $^{\circ}\text{C}$	@Temperature -40.0 - 73.4 $^{\circ}\text{F}$	ISO 11359-1/-2
	120 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	66.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 $^{\circ}\text{C}$	@Temperature 73.4 - 131 $^{\circ}\text{F}$	
150 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	83.3 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$		
Melting Point	168 $^{\circ}\text{C}$	334 $^{\circ}\text{F}$	10 $^{\circ}\text{C}/\text{min}$; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	205 $^{\circ}\text{C}$	401 $^{\circ}\text{F}$	Optimum; Injection Molding
	200 - 210 $^{\circ}\text{C}$	392 - 410 $^{\circ}\text{F}$	Injection Molding
Mold Temperature	90.0 $^{\circ}\text{C}$	194 $^{\circ}\text{F}$	optimum; Injection Molding
	80.0 - 100 $^{\circ}\text{C}$	176 - 212 $^{\circ}\text{F}$	Injection Molding
Drying Temperature	80.0 $^{\circ}\text{C}$	176 $^{\circ}\text{F}$	Injection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	Injection Molding
Moisture Content	$\leq 0.20\%$	$\leq 0.20\%$	Injection Molding

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Forms	Pellets	

Descriptive Properties	Value	Comments
Generic	Acetal (POM) Copolymer	
Material Status	Preliminary Data	
Processing Method	Injection Molding	
Product Category	Food Contact Resins	
	Metal Filled Resins	
Region Available - Global	Yes	
RoHS Compliance	Contact Manufacturer	
Uses	Food Applications, Non-specific	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China