

DuPont Performance Polymers Delrin® 988PA NC010 Acetal Homopolymer (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Delrin® 988PA NC010 is a low viscosity acetal homopolymer for injection molding with low screw deposit. It is especially formulated for gear applications requiring high precision and dimensional stability. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-988PA-NC010-Acetal-Homopolymer-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	50 X 2mm pulley
	0.016 cm/cm	0.016 in/in	Flow
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.017 cm/cm	0.017 in/in	Transverse
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	25 g/10 min	25 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, Yield	72.0 MPa	10400 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	27 %	27 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	12 %	12 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	3.00 GPa	435 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.630 J/cm ²	3.00 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
UL RTI, Electrical	50.0 °C	122 °F	UL 746B
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 0.800 mm	@Thickness 0.0315 in	
UL RTI, Mechanical without Impact	50.0 °C	122 °F	UL 746B
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	HB	HB	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	UL94
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 210 °C	392 - 410 °F	Injection Molding
	205 °C	401 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	Injection Molding

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.050 %	<= 0.050 %	Injection Molding

Descriptive Properties	Value	Comments
Forms	Pellets	
Generic	Acetal (POM) Homopolymer	
Material Status	Preliminary Data	
Part Marking Code	>POM<	ISO 11469
Processing Method	Injection Molding	
Product Category	Unreinforced Resins	
Resin Identification	POM	ISO 1043
RoHS Compliance	Contact Manufacturer	

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