

DuPont Performance Polymers Delrin® 588P NC010 Acetal Homopolymer (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Delrin® 588P NC010 is a medium viscosity acetal homopolymer resin for injection molding. It has good thermal stability, and modifications for more precise molding (reduced warpage, good dimensional stability). Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-588P-NC010-Acetal-Homopolymer-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Water Absorption	0.30 % @Temperature 23.0 °C	0.30 % @Temperature 73.4 °F	Equilibrium 50%RH; ISO 62, Similar to
Linear Mold Shrinkage, Flow	0.019 cm/cm @Thickness 2.00 mm	0.019 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.018 cm/cm @Thickness 2.00 mm	0.018 in/in @Thickness 0.0787 in	ISO 294-4
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 190 °C	15 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ISO 2039/2
Tensile Strength, Yield	73.0 MPa @Temperature 23.0 °C	10600 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	25 % @Temperature 23.0 °C	25 % @Temperature 73.4 °F	nominal; ISO 527
Elongation at Yield	12 % @Temperature 23.0 °C	12 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	3.20 GPa @Temperature 23.0 °C	464 ksi @Temperature 73.4 °F	ISO 527
Charpy Impact, Notched	0.800 J/cm ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	97.0 °C	207 °F	ISO 75-1/-2
UL RTI, Electrical	50.0 °C	122 °F	UL 746B
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	110 °C	230 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	UL 746B
	110 °C	230 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746B
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	85.0 °C	185 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	UL 746B
	90.0 °C	194 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	50.0 °C	122 °F	UL 746B
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	90.0 °C	194 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	UL 746B
	95.0 °C	203 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	IEC 60695-11-10
	HB	HB	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	UL94

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
	HB	HB	UL94
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
	600 V	600 V	
Comparative Tracking Index	@Thickness 3.00 mm, Temperature 23.0 °C	@Thickness 0.118 in, Temperature 73.4 °F	UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	215 °C	419 °F	Optimum; Injection Molding
	210 - 220 °C	410 - 428 °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	<= 0.20 %	<= 0.20 %	Injection Molding

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Extrudable - Cast Film	Yes	
Extrudable - Sheet	Yes	
Extrudable - Tubing	Yes	
Extrudable - Wire and Cable	Yes	
Features	Creep Resistance, Good	
	Dimensional Stability, Good	
	Fatigue Resistant	
	Homopolymer	
	Stiffness, High	
	Strength, High	
	Viscosity, Medium	

Descriptive Properties	Value	Comments
Generic	Acetal (POM) Homopolymer	
Material Status	Current	
Part Marking Code	>POM<	ISO 11469
Polymer Family	POM	
Polymer Type	POM Homopolymer	
Processing Method	Injection Molding	
Product Category	Unreinforced Resins	
Resin Identification	POM	ISO 1043
RoHS Compliance	Contact Manufacturer	
Ultrasonic Weldable	Yes	
Uses	Fasteners	
	Gears	
	General Purpose	
	Parts, Engineering	

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