



DuPont Performance Polymers Delrin® 111PA NC010 POM (discontinued **)

Categories: [Polymer](#); [Thermoplastic](#); [Acetal \(Polyoxymethylene, POM\)](#); [Acetal Homopolymer](#), [Unreinforced](#)

Material Notes: Nucleated High Viscosity Acetal Homopolymer


Information provided by DuPont.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	normal; ISO 294-4, 2577
Melt Flow	2.4 g/10 min @Load 2.16 kg, Temperature 190 °C	2.4 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	72.0 MPa	10400 psi	ISO 527-1/-2
Elongation at Break	38 %	38 %	Nominal; ISO 527-1/-2
Elongation at Yield	19 %	19 %	ISO 527-1/-2
Tensile Modulus	3.10 GPa	450 ksi	ISO 527-1/-2
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Poissons Ratio	0.37	0.37	
Charpy Impact Unnotched	27.0 J/cm ² @Temperature 23.0 °C	128 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched 	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	1.10 J/cm ² @Temperature 23.0 °C	5.23 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 0.46 MPa (66 psi)	163 °C	325 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	ISO 75-1/-2
Flame Spread	<= 80.0 mm/min @Thickness 1.00 mm	<= 3.15 in/min @Thickness 0.0394 in	ISO 3795 (FMVSS 302)
Processing Properties	Metric	English	Comments
Melt Temperature	195 - 205 °C	383 - 401 °F	Extrusion
	200 °C	392 °F	Optimum, Extrusion
	215 °C	419 °F	Optimum, Injection
	210 - 220 °C	410 - 428 °F	Injection
Mold Temperature	80.0 - 100 °C	176 - 212 °F	Injection
	90.0 °C	194 °F	Optimum, Injection
Drying Temperature 	75.0 - 85.0 °C @Time 7200 - 14400 sec	167 - 185 °F @Time 2.00 - 4.00 hour	Extrusion; Dehumidified Dryer
	80.0 °C @Time 7200 - 14400 sec	176 °F @Time 2.00 - 4.00 hour	Injection; Dehumidified Dryer
Moisture Content	0.050 - 0.20 %	0.050 - 0.20 %	
Hold Pressure	90.0 - 110 MPa	13100 - 16000 psi	Injection
Annealing Temperature	160 °C	320 °F	Optional; 30 min/mm
Descriptive Properties			
Delivery form	Pellets		
Drying Recommended	yes		
FMVSS Class	B		ISO 3795 (FMVSS 302)
Hold pressure time (s/mm)	7.5		Injection
Part Marking Code	>POM<		ISO 11469
Processing	Extrusion		

	Injection Molding	
	Other Extrusion	
	Sheet Extrusion	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	POM	ISO 1043

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Materials flagged as discontinued () are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.

Users of our Advanced Search (registration required) may exclude discontinued materials from search results.

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