

DuPont Performance Polymers Delrin® 100T BK602 Acetal Homopolymer (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Delrin® 100T BK602 is a toughened, high viscosity acetal homopolymer grade with superior impact resistance. It is designed for highly stressed parts where outstanding toughness is required. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-100T-BK602-Acetal-Homopolymer-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.0 MPa @Temperature 23.0 °C	7830 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	>= 50 % @Temperature 23.0 °C	>= 50 % @Temperature 73.4 °F	nominal; ISO 527
Elongation at Yield	>= 50 % @Temperature 23.0 °C	>= 50 % @Temperature 73.4 °F	50mm/min; ISO 527
Tensile Modulus	1.90 GPa @Temperature 23.0 °C	276 ksi @Temperature 73.4 °F	ISO 527
Charpy Impact, Notched	1.10 J/cm ² @Temperature -30.0 °C	5.23 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	2.30 J/cm ² @Temperature 23.0 °C	10.9 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) Thermal Properties	71.0 °C Metric	160 °F English	ISO 75-1/-2 Comments
Processing Properties	Metric	English	Comments
Melt Temperature	205 °C	401 °F	Optimum; Injection Molding
	200 - 210 °C	392 - 410 °F	Injection Molding
Mold Temperature	50.0 °C	122 °F	optimum; Injection Molding
	40.0 - 60.0 °C	104 - 140 °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	
Extrudable - Coating	Yes	
Extrudable - Tubing	Yes	
Extrudable - Wire and Cable	Yes	
Extrusion Blow Moldable	Yes	
Features	Homopolymer	
	Impact Modified	
	Impact Resistance, High	
	Molecular Wt., High	
	Toughness, Ultra High	
	Viscosity, High	
Forms	Pellets	
Generic	Acetal (POM) Homopolymer	
Material Status	Current	
Part Marking Code	>POM-I<	ISO 11469
Polymer Family	POM	
Polymer Type	POM Homopolymer	

Processing Method Descriptive Properties	Extrusion Value	Comments
	Injection Molding	
Product Category	Extrusion Resins	
	Toughened Resins	
	Unreinforced Resins	
Region Available - Global	Yes	
Resin Identification	POM-I	ISO 1043
RoHS Compliance	Contact Manufacturer	
Ultrasonic Weldable	Yes	
Uses	Fasteners	
	Fasteners	
	Gears	
	Parts, Engineering	
	Tubing	

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