

DuPont Performance Polymers Delrin® 100ST BK602 Acetal (POM) (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Unreinforced, Impact Grade

Material Notes:

Super Toughened High Viscosity Acetal Homopolymer Delrin 100ST BK602 is a super tough high viscosity acetal homopolymer grade with superior impact resistance. It is designed for highly stressed parts where outstanding toughness is essential. Information provided by DuPont Performance Polymers

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ISO 294-4 2577
Melt Flow	2.1 g/10 min @Load 2.16 kg, Temperature 190 °C	2.1 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal; ISO 527-1/-2
Elongation at Yield	30 %	30 %	ISO 527-1/-2
Tensile Modulus	1.20 GPa	174 ksi	ISO 527-1/-2
Flexural Modulus	1.10 GPa	160 ksi	ISO 178
Shear Modulus	0.0351 GPa @Temperature 160 °C	5.09 ksi @Temperature 320 °F	Dynamic; ISO 11403-1 -2
	0.0816 GPa @Temperature 120 °C	11.8 ksi @Temperature 248 °F	Dynamic; ISO 11403-1 -2
	0.1884 GPa @Temperature 70.0 °C	27.33 ksi @Temperature 158 °F	Dynamic; ISO 11403-1 -2
	0.3691 GPa @Temperature 20.0 °C	53.53 ksi @Temperature 68.0 °F	Dynamic; ISO 11403-1 -2
	0.5982 GPa	86.76 ksi	

Mechanical Properties	Metric @ Temperature -20.0 °C	English @ Temperature -4.00 °F	Dynamic; ISO 11403-1 -2 Comments
	1.1904 GPa	172.66 ksi	Dynamic; ISO 11403-1 -2
	@Temperature -50.0 °C	@Temperature -58.0 °F	
Charpy Impact, Notched	8.00 J/cm²	38.1 ft-lb/in²	ISO 179/1eA
	1.40 J/cm²	6.66 ft-lb/in²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	216 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Descriptive Properties	Value	Comments
Additives	Lubricants	
	Release agent	
Delivery Form	Pellets	
Emissions	<8 mg/kg	VDA 275
Part Marking Code	>POM-HI<	ISO 11469
Processing	Blow Moulding	
	Coatable	
	Injection Moulding	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
Regional Availability	Asia Pacific	

Descriptive Properties	Value	Comments
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	POM-HI	ISO 1043
UL recognition	UL	

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