

DuPont Performance Polymers Delrin® 900P BK602 Acetal (POM) (Unverified Data**)

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

Material Notes:

Low Viscosity Acetal Homopolymer with Improved Processing Delrin 900P BK602 is a low viscosity black acetal homopolymer resin for multicavity and thin wall molding. It offers an improved processing thermal stability. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-900P-BK602-Acetal-POM-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ISO 294-4 2577
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 190 °C	25 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Stress	16.6 MPa @Strain 0.500 %, Temperature 23.0 °C	2410 psi @Strain 0.500 %, Temperature 73.4 °F	ISO 11403-1 -2
	35.5 MPa @Strain 0.900 %, Temperature -40.0 °C	5150 psi @Strain 0.900 %, Temperature -40.0 °F	ISO 11403-1 -2
	51.4 MPa @Strain 2.80 %, Temperature 23.0 °C	7450 psi @Strain 2.80 %, Temperature 73.4 °F	ISO 11403-1 -2
	62.2 MPa @Strain 5.00 %, Temperature 23.0 °C	9020 psi @Strain 5.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	65.9 MPa @Strain 8.00 %, Temperature 23.0 °C	9560 psi @Strain 8.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	83.9 MPa @Strain 3.70 %, Temperature -40.0 °C	12200 psi @Strain 3.70 %, Temperature -40.0 °F	ISO 11403-1 -2

Mechanical Properties	Metric _{Pa}	English _{psi}	Comments
	@Strain 6.00 %, Temperature -40.0 °C	@Strain 6.00 %, Temperature -40.0 °F	ISO 11403-1 -2
	94.9 MPa	13800 psi	
	@Strain 9.00 %, Temperature -40.0 °C	@Strain 9.00 %, Temperature -40.0 °F	ISO 11403-1 -2
Tensile Strength, Yield	70.0 MPa	10200 psi	ISO 527-1/-2
Elongation at Break	17 %	17 %	Nominal; ISO 527-1/-2
Elongation at Yield	12 %	12 %	ISO 527-1/-2
Tensile Modulus	3.30 GPa	479 ksi	ISO 527-1/-2
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
Secant Modulus	0.524 GPa	76.0 ksi	
	@Strain 4.60 %, Temperature 100 °C	@Strain 4.60 %, Temperature 212 °F	ISO 11403-1 -2
	0.588 GPa	85.3 ksi	
	@Strain 6.00 %, Temperature 80.0 °C	@Strain 6.00 %, Temperature 176 °F	ISO 11403-1 -2
	0.663 GPa	96.2 ksi	
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	ISO 11403-1 -2
	0.708 GPa	103 ksi	
	@Strain 2.50 %, Temperature 100 °C	@Strain 2.50 %, Temperature 212 °F	ISO 11403-1 -2
	0.865 GPa	125 ksi	
	@Strain 11.0 %, Temperature -40.0 °C	@Strain 11.0 %, Temperature -40.0 °F	ISO 11403-1 -2
	0.921 GPa	134 ksi	
	@Strain 2.80 %, Temperature 80.0 °C	@Strain 2.80 %, Temperature 176 °F	ISO 11403-1 -2
	0.9375 GPa	136.0 ksi	
	@Strain 0.800 %, Temperature 100 °C	@Strain 0.800 %, Temperature 212 °F	ISO 11403-1 -2
	1.07 GPa	155 ksi	
	@Strain 6.00 %, Temperature 23.0 °C	@Strain 6.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	1.34 GPa	194 ksi	

Mechanical Properties	Metric	English	Comments
	@Strain 7.00 %, Temperature -40.0 °C	@Strain 7.00 %, Temperature -40.0 °F	ISO 11403-1 -2
	1.36 GPa	197 ksi	
	@Strain 0.900 %, Temperature 80.0 °C	@Strain 0.900 %, Temperature 176 °F	ISO 11403-1 -2
	1.84 GPa	266 ksi	
	@Strain 2.80 %, Temperature 23.0 °C	@Strain 2.80 %, Temperature 73.4 °F	ISO 11403-1 -2
	2.27 GPa	329 ksi	
	@Strain 3.70 %, Temperature -40.0 °C	@Strain 3.70 %, Temperature -40.0 °F	ISO 11403-1 -2
	3.32 GPa	482 ksi	
	@Strain 0.500 %, Temperature 23.0 °C	@Strain 0.500 %, Temperature 73.4 °F	ISO 11403-1 -2
	3.94 GPa	572 ksi	
	@Strain 0.900 %, Temperature -40.0 °C	@Strain 0.900 %, Temperature -40.0 °F	ISO 11403-1 -2
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180/1A
	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	13.0 J/cm ²	61.9 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
	92.0 µm/m-°C	51.1 µin/in-°F	
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	ASTME 831
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
	92.0 µm/m-°C	51.1 µin/in-°F	
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	ISO 11359-1/-2
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)			ISO 1811/2
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	ISO 75-1/-2
Flammability, UL94	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	

Descriptive Properties	Value	Comments
Additives	Lubricants	
	Release agent	
Delivery Form	Pellets	
Part Marking Code	>POM<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	POM	ISO 1043
UL recognition	UL	

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