Delrin® 900P BK602

ACETAL RESIN

DuPont Performance Polymers

Technical Data

Due due t De s	and the definition of
Product Des	scription

Low Viscosity Acetal Homopolymer	with Improved Processing			
General				
Material Status	Commercial: Active			
Literature ¹	 Processing - Injection Molding (English) Typical Processing for DuPont Engineering Polymers (English) White Paper - Property Advantages of Delrin® Acetal Homopolymer - a guide for design engineer (English) 			
UL Yellow Card ²	• E41938-257616			
Search for UL Yellow Card	DuPont Performance Polyme Delrin®	ers		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America	
Additive	 Lubricant 	 Mold Release 		
Features	 Good Processability 	 Homopolymer 	Low Viscosity	
RoHS Compliance	 Contact Manufacturer 			
Forms	Pellets			
Processing Method	 Injection Molding 			
Multi-Point Data	 Isothermal Stress vs. Strain (ISO 11403-1) 	 Secant Modulus vs. Strain (I 11403-1) 	SO	
Part Marking Code (ISO 11469)	• POM			
Resin ID (ISO 1043)	• POM			
Physical		Nominal Value Unit	Test Method	
Develtes		1 10	100 4400	

Physical	Nominal Value Unit	Test Method
Density	1.42 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	25 g/10 min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	1.7 %	
Flow	1.8 %	
Water Absorption		ISO 62
Equilibrium, 23°C, 2.00 mm, 50% RH	0.40 %	
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	3300 MPa	ISO 527-2
Tensile Stress (Yield)	70.0 MPa	ISO 527-2
Tensile Strain (Yield)	12 %	ISO 527-2
Nominal Tensile Strain at Break	17 %	ISO 527-2
Flexural Modulus	3000 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	6.0 kJ/m ²	
23°C	7.0 kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	130 kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength		ISO 180/1A
-40°C	7.0 kJ/m²	
23°C	7.0 kJ/m ²	

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Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	161 °C	ISO 75-2/B
1.8 MPa, Unannealed	98.0 °C	ISO 75-2/A
Melting Temperature ⁴	178 °C	ISO 11357-3
CLTE		
Flow : 23 to 55°C	9.2E-7 cm/cm/°C	ASTM E831
Flow	1.0E-4 cm/cm/°C	ISO 11359-2
Transverse	1.0E-4 cm/cm/°C	ISO 11359-2
Transverse : -40 to 23°C	9.2E-5 cm/cm/°C	ISO 11359-2
Annealing Temperature	160 °C	
Annealing Time - Optional	30.0 min/mm	
Flammability	Nominal Value Unit	Test Method
Burning Rate ⁵ (1.00 mm)	20 mm/min	ISO 3795
Flame Rating		UL 94
0.8 mm	HB	IEC 60695-11-10, -20
1.5 mm	HB	
Oxygen Index	23 %	ISO 4589-2
FMVSS Flammability	В	FMVSS 302
Fogging		ISO 6452
F-value (refraction)	95 %	
G-value (condensate)	2.0E-4 g	
Additional Information	Nominal Value Unit	Test Method
Emission	< 8.00 mg/kg	VDA 275
njection	Nominal Value Unit	
Drying Temperature	3° 08	
Drying Time - Desiccant Dryer	2.0 to 4.0 hr	
Suggested Max Moisture	0.20 %	
Processing (Melt) Temp	210 to 220 °C	
Melt Temperature, Optimum	215 °C	
Mold Temperature	80 to 100 °C	
Mold Temperature, Optimum	90 °C	
Holding Pressure	80.0 to 100 MPa	

Hold Pressure Time

Drying Recommended

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

yes

8.00 s/mm

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 10°C/min

⁵ FMVSS 302



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Where to Buy

Supplier

DuPont Performance Polymers Wilmington, DE USA Telephone: 302-999-4592 Web: http://plastics.dupont.com/

Distributor Biesterfeld

Biesterfeld is a Pan European distribution company. Contact Biesterfeld for availability of individual products by country. Telephone: +49-40-32008-0

Web: http://www.biesterfeld-plastic.com/

Availability: Algeria, Austria, Belgium, Bosnia and Herzegovina, Brazil, Bulgaria, Croatia, Cyprus, Czech Republic, Egypt, France, Germany, Greece, Hungary, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland, Tunisia, Turkey

CCC Plastics

Telephone: 800-465-6917 Web: https://www.ccc-group.com/ Availability: Canada

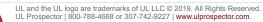
Distrupol Ltd

Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country. Telephone: 08452003040 Web: http://www.distrupol.com/ Availability: Denmark, Finland, Ireland, Norway, Sweden, United Kingdom

PolyOne Distribution

PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country. Telephone: 800-894-4266 Web: http://polyonedistribution.com/ Availability: Global





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