

DELTRIN® 300CP BK602

ACETAL RESIN
Delrin USA, LLC

PROSPECTOR®

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Technical Data

Product Description

Medium-high Viscosity Acetal Homopolymer with Improved Processing

General

Material Status	• Commercial: Active		
Search for UL Yellow Card	• Delrin USA, LLC • DELTRIN®		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Mold Release		
RoHS Compliance	• Contact Manufacturer		
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403)	• Secant Modulus vs. Strain (ISO 11403)	
Part Marking Code (ISO 11469)	• >POM<		
Resin ID (ISO 1043)	• POM		

Physical	Nominal Value Unit	Test Method
Density	1.42 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.0 cm ³ /10min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	1.8 %	
Flow	2.1 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	3200 MPa	ISO 527-1
Tensile Stress (Yield)	71.0 MPa	ISO 527-2
Tensile Strain (Yield)	22 %	ISO 527-2
Nominal Tensile Strain at Break	35 %	ISO 527-2
Poisson's Ratio	0.37	

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	9.5 kJ/m ²	
23°C	9.0 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	310 kJ/m ²	
23°C	No Break	

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	163 °C	ISO 75-2/B
1.8 MPa, Unannealed	100 °C	ISO 75-2/A
Melting Temperature ²	178 °C	ISO 11357-3
Annealing Temperature	160 °C	
Annealing Time - Optional	30.0 min/mm	

Flammability	Nominal Value Unit	Test Method
Burning Rate ³ (1.00 mm)	< 80 mm/min	ISO 3795
FMVSS Flammability	B	FMVSS 302



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Additional Information	Nominal Value Unit	Test Method
Emission	< 8 ppm	VDA 275

Injection	Nominal Value Unit
Drying Temperature	80 °C
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
Drying Recommended	yes
Hold Pressure Time	8.00 s/mm
Maximum Screw Tangential Speed	12 m/min

Notes¹ Typical properties: these are not to be construed as specifications.² 10°C/min³ FMVSS 302

Where to Buy

Supplier**Delrin USA, LLC**

Wilmington, Wilmington USA

Telephone: 302-295-5900

Web: <https://www.delrin.com/>

Distributor**Biesterfeld Plastic GmbH***Biesterfeld is a Pan European distribution company. Contact Biesterfeld for availability of individual products by country.*

Telephone: +49-40-32-00-80

Web: <https://www.biesterfeld.com/>

Availability: Africa & Middle East, Europe, South America

Channel Prime Alliance

Telephone: 800-247-8038

Web: <http://www.channelpa.com/>

Availability: North America

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

Entec Polymers

Telephone: 833-319-0299

Web: https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%201&utm_term=ul%20%7C%20where%20to%20buy

Availability: North America

Entec Polymers Latin America*Contact Entec Polymers for availability of individual products by country.*Web: <https://www.entecpolymers.com/>

Availability: Latin America

Formerra*Formerra is a next generation distributor of performance material solutions for the world's leading brand owners and manufacturers. Bringing you commercial and technical expertise, industry know-how, and access to more than 5,000 materials from 40+ premium suppliers faster and easier than ever before.*

Telephone: 1.888.502.0951 (USA); +86-21-60284936 (China)

Web: <https://www.formerra.com>

Availability: Global

PolySource*PolySource is a North American resin and plastics distributor. Please feel to reach out to your Technical Sales Account Manager. <https://polysource.net/our-team/>*

Telephone: 816-540-5300

Web: <http://www.polysource.net/>

Availability: Canada, Mexico, United States

