

## DuPont Performance Polymers Delrin® 300CP BK642 Acetal (POM) (Unverified Data\*\*)

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

### Material Notes:

Medium-high Viscosity Acetal Homopolymer with Improved Processing Delrin 300CP is a medium-high viscosity acetal homopolymer with improved thermal stability and an outstanding balance of ease of processing and part performance. This black is formulated Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Delrin-300CP-BK642-Acetal-POM-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-300CP-BK642-Acetal-POM-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.021 cm/cm	0.021 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4 2577
Melt Flow	6.0 g/10 min	6.0 g/10 min	cm <sup>3</sup> /10min; ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	7.0 g/10 min	7.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	18.4 MPa	2670 psi	ISO 11403-1 -2
	@Strain 0.700 %, Temperature 23.0 °C	@Strain 0.700 %, Temperature 73.4 °F	
	49.0 MPa	7110 psi	ISO 11403-1 -2
	@Strain 1.50 %, Temperature -40.0 °C	@Strain 1.50 %, Temperature -40.0 °F	
	54.9 MPa	7960 psi	ISO 11403-1 -2
@Strain 3.10 %, Temperature 23.0 °C	@Strain 3.10 %, Temperature 73.4 °F		
	62.8 MPa	9110 psi	ISO 11403-1 -2
	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	
	66.7 MPa	9670 psi	ISO 11403-1 -2
@Strain 8.00 %, Temperature 23.0 °C	@Strain 8.00 %, Temperature 73.4 °F		

Mechanical Properties	Metric <sub>Pa</sub>	English <sub>psi</sub>	Comments
	@Strain 6.00 %, Temperature -40.0 °C	@Strain 6.00 %, Temperature -40.0 °F	ISO 11403-1 -2
	95.4 MPa	13800 psi	
	@Strain 12.0 %, Temperature -40.0 °C	@Strain 12.0 %, Temperature -40.0 °F	ISO 11403-1 -2
Tensile Strength, Yield	71.0 MPa	10300 psi	ISO 527-1/-2
Elongation at Break	40 %	40 %	Nominal; ISO 527-1/-2
Elongation at Yield	22 %	22 %	ISO 527-1/-2
Tensile Modulus	3.05 GPa	442 ksi	ISO 527-1/-2
Secant Modulus	0.483 GPa	70.0 ksi	
	@Strain 14.0 %, Temperature 23.0 °C	@Strain 14.0 %, Temperature 73.4 °F	ISO 11403-1 -2
	0.520 GPa	75.4 ksi	
	@Strain 7.00 %, Temperature 80.0 °C	@Strain 7.00 %, Temperature 176 °F	ISO 11403-1 -2
	0.524 GPa	76.0 ksi	
	@Strain 5.00 %, Temperature 100 °C	@Strain 5.00 %, Temperature 212 °F	ISO 11403-1 -2
	0.531 GPa	77.0 ksi	
	@Strain 18.0 %, Temperature -40.0 °C	@Strain 18.0 %, Temperature -40.0 °F	ISO 11403-1 -2
	0.661 GPa	95.8 ksi	
	@Strain 3.30 %, Temperature 100 °C	@Strain 3.30 %, Temperature 212 °F	ISO 11403-1 -2
	0.77619 GPa	112.58 ksi	
	@Strain 4.20 %, Temperature 80.0 °C	@Strain 4.20 %, Temperature 176 °F	ISO 11403-1 -2
	0.8625 GPa	125.1 ksi	
	@Strain 1.60 %, Temperature 100 °C	@Strain 1.60 %, Temperature 212 °F	ISO 11403-1 -2
	0.950 GPa	138 ksi	
	@Strain 0.400 %, Temperature 100 °C	@Strain 0.400 %, Temperature 212 °F	ISO 11403-1 -2
	1.07 GPa	155 ksi	
	@Strain 6.00 %,	@Strain 6.00 %,	ISO 11403-1 -2

Mechanical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
	1.08 GPa	156 ksi	
	@Strain 2.10 %, Temperature 80.0 °C	@Strain 2.10 %, Temperature 176 °F	ISO 11403-1 -2
	1.46 GPa	212 ksi	
	@Strain 0.500 %, Temperature 80.0 °C	@Strain 0.500 %, Temperature 176 °F	ISO 11403-1 -2
	1.52 GPa	220 ksi	
	@Strain 6.00 %, Temperature -40.0 °C	@Strain 6.00 %, Temperature -40.0 °F	ISO 11403-1 -2
	1.77 GPa	257 ksi	
	@Strain 3.10 %, Temperature 23.0 °C	@Strain 3.10 %, Temperature 73.4 °F	ISO 11403-1 -2
	2.63 GPa	381 ksi	
	@Strain 0.700 %, Temperature 23.0 °C	@Strain 0.700 %, Temperature 73.4 °F	ISO 11403-1 -2
	3.27 GPa	474 ksi	
	@Strain 1.50 %, Temperature -40.0 °C	@Strain 1.50 %, Temperature -40.0 °F	ISO 11403-1 -2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	31.0 J/cm <sup>2</sup>	148 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	0.950 J/cm <sup>2</sup>	4.52 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °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 0.46 MPa (66 psi)	163 °C	325 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ISO 75-1/-2

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	

Descriptive Properties	Value	Comments
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	POM	ISO 1043

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China