

DuPont Performance Polymers Delrin® 311DP BK402 Acetal (POM) (Unverified Data**)

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

Material Notes:

Nucleated Medium-high Viscosity Acetal Homopolymer Delrin 311DP BK402 is a medium high viscosity acetal homopolymer with improved thermal stability and modifications for more precise molding(reduced warpage less shrinkage fewer voids).Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-311DP-BK402-Acetal-POM-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 190 °C	7.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Stress	16.3 MPa @Strain 0.400 %, Temperature -40.0 °C	2360 psi @Strain 0.400 %, Temperature -40.0 °F	ISO 11403-1 -2
	20.4 MPa @Strain 0.600 %, Temperature 23.0 °C	2960 psi @Strain 0.600 %, Temperature 73.4 °F	ISO 11403-1 -2
	56.4 MPa @Strain 2.50 %, Temperature 23.0 °C	8180 psi @Strain 2.50 %, Temperature 73.4 °F	ISO 11403-1 -2
	65.3 MPa @Strain 1.80 %, Temperature -40.0 °C	9470 psi @Strain 1.80 %, Temperature -40.0 °F	ISO 11403-1 -2
	68.2 MPa @Strain 4.40 %, Temperature 23.0 °C	9890 psi @Strain 4.40 %, Temperature 73.4 °F	ISO 11403-1 -2
	72.9 MPa @Strain 7.00 %, Temperature 23.0 °C	10600 psi @Strain 7.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	90.6 MPa @Strain 3.30 %, Temperature -40.0 °C	13100 psi @Strain 3.30 %, Temperature -40.0 °F	ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	102.3 MPa	14640 psi	
	@Strain 4.70 %, Temperature -40.0 °C	@Strain 4.70 %, Temperature -40.0 °F	ISO 11403-1 -2
Tensile Strength, Yield	74.0 MPa	10700 psi	ISO 527-1/-2
Elongation at Break	28 %	28 %	Nominal; ISO 527-1/-2
Elongation at Yield	15 %	15 %	ISO 527-1/-2
Tensile Modulus	3.30 GPa	479 ksi	ISO 527-1/-2
Secant Modulus	0.42625 GPa	61.823 ksi	
	@Strain 8.00 %, Temperature 100 °C	@Strain 8.00 %, Temperature 212 °F	ISO 11403-1 -2
	0.553 GPa	80.2 ksi	
	@Strain 8.50 %, Temperature 80.0 °C	@Strain 8.50 %, Temperature 176 °F	ISO 11403-1 -2
	0.823 GPa	119 ksi	
	@Strain 9.00 %, Temperature 23.0 °C	@Strain 9.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	1.00 GPa	146 ksi	
	@Strain 2.20 %, Temperature 100 °C	@Strain 2.20 %, Temperature 212 °F	ISO 11403-1 -2
	1.30 GPa	189 ksi	
	@Strain 2.30 %, Temperature 80.0 °C	@Strain 2.30 %, Temperature 176 °F	ISO 11403-1 -2
	1.398 GPa	202.8 ksi	
	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	1.76 GPa	255 ksi	
	@Strain 6.00 %, Temperature -40.0 °C	@Strain 6.00 %, Temperature -40.0 °F	ISO 11403-1 -2
	2.256 GPa	327.2 ksi	
	@Strain 2.50 %, Temperature 23.0 °C	@Strain 2.50 %, Temperature 73.4 °F	ISO 11403-1 -2
	2.59 GPa	376 ksi	
	@Strain 3.70 %, Temperature -40.0 °C	@Strain 3.70 %, Temperature -40.0 °F	ISO 11403-1 -2
	3.40 GPa	493 ksi	
	@Strain 0.600 %, Temperature -40.0 °C	@Strain 0.600 %, Temperature -40.0 °F	ISO 11403-1 -2

Mechanical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
	3.63 GPa	526 ksi	
	@Strain 1.80 %, Temperature -40.0 °C	@Strain 1.80 %, Temperature -40.0 °F	ISO 11403-1 -2
	4.075 GPa	591.0 ksi	
	@Strain 0.400 %, Temperature -40.0 °C	@Strain 0.400 %, Temperature -40.0 °F	ISO 11403-1 -2
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	103 °C	217 °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	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
Regional Availability	Asia Pacific	
	Europe	
	Global	

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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