

DuPont Performance Polymers Delrin® 577 BK000 Acetal (POM) (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Glass Fiber Reinforced

Material Notes:

20% Glass Filled Medium Viscosity Acetal Homopolymer Delrin 577 BK000 is a medium viscosity acetal homopolymer containing 20% glass fiber filler with high stiffness low warpage and low creep for superior performance at elevated temperature. It contains Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-577-BK000-Acetal-POM-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Viscosity	99000 cP	99000 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 230 °C	@Shear Rate 5000 1/s, Temperature 446 °F	
	105000 cP	105000 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 215 °C	@Shear Rate 5000 1/s, Temperature 419 °F	
	111000 cP	111000 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 200 °C	@Shear Rate 5000 1/s, Temperature 392 °F	
	365000 cP	365000 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 230 °C	@Shear Rate 500 1/s, Temperature 446 °F	
	407000 cP	407000 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 215 °C	@Shear Rate 500 1/s, Temperature 419 °F	
	454000 cP	454000 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 200 °C	@Shear Rate 500 1/s, Temperature 392 °F	
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4 2577
Melt Flow	7.0 g/10 min	7.0 g/10 min	cm ³ /10min; ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	ISO 527-1/-2
Elongation at Break	10 %	10 %	ISO 527-1/-2
Tensile Modulus	4.80 GPa	696 ksi	ISO 527-1/-2
Flexural Modulus	4.60 GPa	667 ksi	ISO 178
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA
	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	56.0 µm/m-°C	31.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	92.0 µm/m-°C	51.1 µin/in-°F	ISO 11359-1/-2
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	164 °C	327 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	118 °C	244 °F	ISO 75-1/-2
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	IEC 60695-11-10

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Part Marking Code	>POM-GF20<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	

Descriptive Properties	Value	Comments
Special Characteristics	Light stabilised or stable to light	
	U.V. stabilised or stable to weather	
UL recognition	UL	

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