

Delrin® 577 BK000

ACETAL RESIN

DuPont Performance Polymers

Message:

20% Glass Filled Medium Viscosity Acetal Homopolymer

General Information			
UL YellowCard	E41938-257646		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Mold Release		
	UV Stabilizer		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>POM-GF20<		
Resin ID (ISO 1043)	POM-GF20		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	1.7	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4800	MPa	ISO 527-2
Tensile Stress (Break)	52.0	MPa	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Flexural Modulus	4600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.0	kJ/m ²	
23°C	3.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	164	°C	ISO 75-2/B
1.8 MPa, Unannealed	118	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	5.6E-5	cm/cm/°C	
Transverse	9.2E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
NOTE			
1.	10°C/min		

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