

Delrin® 100AF

ACETAL RESIN

DuPont Performance Polymers

Message:

20% Teflon® Fiber Filled High Viscosity Acetal Homopolymer with Low Wear and Low Friction

General Information			
UL YellowCard	E41938-257635		
Filler / Reinforcement	PTFE Fiber,20% Filler by Weight		
Additive	Lubricant		
	Mold Release		
Features	Lubricated		
Uses	Profiles		
	Sheet		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
Multi-Point Data	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-SF20<		
Resin ID (ISO 1043)	POM-SF20		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	2.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Break)	53.0	MPa	ISO 527-2
Tensile Strain (Break)	15	%	ISO 527-2

Flexural Modulus	2500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	87.0	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.1E-4	cm/cm/°C	
Transverse	1.1E-4	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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