Delrin® 500AF

ACETAL RESIN

DuPont Performance Polymers

Message:

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

General Information	
UL YellowCard	E41938-257635
Filler / Reinforcement	Teflon® PTFE,20% Filler by Weight
Additive	Lubricant Mold Release
Features	Lubricated
Agency Ratings	UL Unspecified Rating
Forms	Pellets
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) 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-SF20<
Resin ID (ISO 1043)	POM-SF20

Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.4	%	
Flow	2.0	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	1.0	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Break)	50.0	MPa	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-30°C	3.0	kJ/m²	
23°C	3.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	35	kJ/m²	
23°C	40	kJ/m²	
Notched Izod Impact Strength (23°C)	3.0	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	92.0	°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	1.0E-4	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate (1.00 mm)	54	mm/min	ISO 3795
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
NOTE			
1.	10°C/min		

Recommended distributors for this material

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