

Delrin® FG500MP NC010

ACETAL RESIN

DuPont Performance Polymers

Message:

Teflon® Lubricated Medium Viscosity Acetal Homopolymer

General Information			
Additive	PTFE lubricant Lubricant demoulding		
Features	Homopolymer Lubrication Medium viscosity		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>POM		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	13	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.6	%	ISO 294-4
Flow	1.9	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2
Tensile Stress (Yield)	70.0	MPa	ISO 527-2
Tensile Strain (Yield)	12	%	ISO 527-2
Nominal Tensile Strain at Break	17	%	ISO 527-2
Flexural Modulus	3200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m ²	ISO 179/1eA
23°C	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	120	kJ/m ²	ISO 179/1eU
23°C	130	kJ/m ²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	163	°C	ISO 75-2/B
1.8 MPa, not annealed	100	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.0E-4	cm/cm/°C	ISO 11359-2
Lateral	1.0E-4	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	mm/min	ISO 3795
Flammability Classification (1.5 mm)	HB		IEC 60695-11-10, -20
FMVSS Flammability	B		FMVSS 302
Melt Temperature, Optimum	215	°C	
Mold Temperature, Optimum	90	°C	
Drying Recommended	yes		
Hold Pressure Time	8.00	s/mm	
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time - Desiccant Dryer	2.0 - 4.0	hr	
Suggested Max Moisture	0.20	%	
Processing (Melt) Temp	210 - 220	°C	
Mold Temperature	80 - 100	°C	
Holding Pressure	80.0 - 100	MPa	
NOTE			
1.	10°C/min		
2.	FMVSS 302		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

