

Delrin® 100KM NC000

ACETAL RESIN

DuPont Performance Polymers

Message:

Kevlar® Modified High Viscosity Acetal Homopolymer with Low Wear and Low Friction

General Information			
Filler / Reinforcement	Aramid Fiber		
Additive	Lubricant		
	Mold Release		
Features	Lubricated		
Uses	Profiles		
	Sheet		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
Part Marking Code (ISO 11469)	>POM-AG<		
Resin ID (ISO 1043)	POM-AG		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.8	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Break)	65.0	MPa	ISO 527-2
Tensile Strain (Break)	15	%	ISO 527-2
Flexural Modulus	3000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.5	kJ/m ²	
23°C	4.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU

-30°C	60	kJ/m²	
23°C	50	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.1E-4	cm/cm/°C	
Flow : -40 to 23°C	9.4E-5	cm/cm/°C	
Transverse	1.0E-4	cm/cm/°C	
Transverse : -40 to 23°C	9.2E-5	cm/cm/°C	
Fill Analysis	Nominal Value	Unit	
Melt Density	1.18	g/cm³	
NOTE			
1.	10°C/min		

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