

Delrin® 511DP BK402

ACETAL RESIN

DuPont Performance Polymers

Message:

Nucleated Medium Viscosity Acetal Homopolymer

General Information			
UL YellowCard	E41938-257619		
Forms	Pellets		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>POM<		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	14	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	13.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.8	%	
Flow	1.9	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.90	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2
Tensile Stress (Yield)	74.0	MPa	ISO 527-2
Tensile Strain (Yield)	12	%	ISO 527-2
Nominal Tensile Strain at Break	20	%	ISO 527-2
Flexural Modulus	3200	MPa	ISO 178
Flexural Stress (3.5% Strain)	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	160	kJ/m ²	
23°C	160	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	163	°C	ISO 75-2/B

1.8 MPa, Unannealed	105	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3
NOTE			
1.	10°C/min		

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