

Delrin® 520MP NC010

ACETAL RESIN

DuPont Performance Polymers

Message:

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

General Information			
UL YellowCard	E41938-257642		
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)		
Part Marking Code (ISO 11469)	>POM-SD20<		
Resin ID (ISO 1043)	POM-SD20		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.9	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Yield)	53.0	MPa	ISO 527-2
Tensile Strain (Yield)	13	%	ISO 527-2
Nominal Tensile Strain at Break	15	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	1500	MPa	
1000 hr	800	MPa	
Flexural Modulus	2700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179/1eU

Notched Izod Impact Strength (23°C)	4.0	kJ/m ²	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	94.0	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.0E-4	cm/cm/°C	
Transverse	9.7E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Additional Information	Nominal Value	Unit	Test Method
Emission of Organic Compounds	7.50	µgC/g	VDA 277
NOTE			
1.	10°C/min		

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