

Delrin® 500SC NC010

ACETAL RESIN
DuPont Performance Polymers

Message:
Silicone Lubricated Medium Viscosity Acetal Homopolymer Concentrate Developed for Enhancing Lubricity

General Information			
Additive	Lubricant		
	Mold Release		
Features	Lubricated		
Forms	Pellets		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>POM-S20<		
Resin ID (ISO 1043)	POM-S20		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2
Tensile Stress (Yield)	66.0	MPa	ISO 527-2
Tensile Strain (Yield)	21	%	ISO 527-2
Nominal Tensile Strain at Break	40	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress (3.5% Strain)	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	270	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	158	°C	ISO 75-2/B
1.8 MPa, Unannealed	96.0	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.0E-4	cm/cm/°C	
Flow : -40 to 23°C	1.0E-4	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	
Transverse : -40 to 23°C	1.1E-4	cm/cm/°C	

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