

Delrin® 500TE NC010

ACETAL RESIN

DuPont Performance Polymers

Message:

Toughened Medium Viscosity Acetal Homopolymer with Very Low Emissions

General Information			
Additive	Lubricant		
	Mold Release		
Features	Lubricated		
Forms	Pellets		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>POM-I<		
Resin ID (ISO 1043)	POM-I		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	9.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2170	MPa	ISO 527-2
Tensile Stress (Yield)	52.0	MPa	ISO 527-2
Tensile Strain (Yield)	20	%	ISO 527-2
Nominal Tensile Strain at Break	35	%	ISO 527-2
Flexural Modulus	2060	MPa	ISO 178
Flexural Stress (3.5% Strain)	57.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m ²	
23°C	11	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	142	°C	ISO 75-2/B
1.8 MPa, Unannealed	76.0	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method

Emission	< 2.00	mg/kg	VDA 275
NOTE			

1. 10°C/min

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