

Delrin® 500PE NC010

ACETAL RESIN

DuPont Performance Polymers

Message:

Medium Viscosity Acetal Homopolymer with Very Low Emissions

General Information			
Additive	Mold Release		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>POM<		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	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)	12.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.9	%	
Flow	2.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	93		
R-Scale	122		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3250	MPa	ISO 527-2
Tensile Stress (Yield)	73.0	MPa	ISO 527-2
Tensile Strain (Yield)	15	%	ISO 527-2
Nominal Tensile Strain at Break	22	%	ISO 527-2
Flexural Modulus	3050	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m²	
23°C	9.5	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU

-30°C	250	kJ/m ²	
23°C	300	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	158	°C	ISO 75-2/B
1.8 MPa, Unannealed	93.0	°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	1.0E-4	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	
Transverse : -40 to 23°C	9.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	47	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	5.5E-3		
Comparative Tracking Index	600	V	IEC 60112
Additional Information	Nominal Value	Unit	Test Method
Emission	< 2.00	mg/kg	VDA 275
NOTE			
1.	10°C/min		

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