

Delrin® 100TE NC010

ACETAL RESIN

DuPont Performance Polymers

Message:

Toughened High Viscosity Acetal Homopolymer with Very Low Emissions

General Information			
Additive	Lubricant		
	Mold Release		
Features	Lubricated		
Uses	Blow Molding Applications		
	Profiles		
	Sheet		
Forms	Pellets		
Processing Method	Blow Molding		
	Coating		
	Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
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)	2.2	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.7	%	
Flow	1.6	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1850	MPa	ISO 527-2
Tensile Stress (Yield)	54.0	MPa	ISO 527-2
Tensile Strain (Yield)	25	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	1850	MPa	ISO 178
Flexural Stress (3.5% Strain)	51.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	14	kJ/m ²	
23°C	25	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	126	°C	ISO 75-2/B
1.8 MPa, Unannealed	71.0	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.2E-4	cm/cm/°C	
Transverse	1.2E-4	cm/cm/°C	
Additional Information	Nominal Value	Unit	Test Method
Emission	< 2.00	mg/kg	VDA 275
NOTE			
1.	10°C/min		

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