

Delrin® 100T NC010

ACETAL RESIN
DuPont Performance Polymers

Message:
Toughened High Viscosity Acetal Homopolymer

General Information			
UL YellowCard	E41938-257618		
Additive	Lubricant Mold Release		
Features	Lubricated		
Uses	Blow Molding Applications Profiles Sheet		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Blow Molding Coating Extrusion Injection Molding Profile Extrusion Sheet Extrusion		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Shear Stress vs. Shear Rate (ISO 11403-1) Specific Volume vs Temperature (ISO 11403-2) Viscosity vs. Shear Rate (ISO 11403-2)		
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)	2.1	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	1.6	%	
Flow	1.5	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.90	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.30	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	59		
R-Scale	113		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2
Tensile Stress (Yield)	55.0	MPa	ISO 527-2
Tensile Strain (Yield)	25	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	13	kJ/m ²	
23°C	25	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	72.0	°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	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
NOTE			
1.	10°C/min		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

