

Delrin® 111DP NC010

ACETAL RESIN

DuPont Performance Polymers

Message:

Nucleated High Viscosity Acetal Homopolymer

General Information			
UL YellowCard	E41938-257619		
Additive	Lubricant		
	Mold Release		
Features	Lubricated		
Uses	Profiles		
	Sheet		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
Part Marking Code (ISO 11469)	>POM<		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.4	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.9	%	
Flow	2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3150	MPa	ISO 527-2
Tensile Stress (Yield)	72.0	MPa	ISO 527-2
Tensile Strain (Yield)	20	%	ISO 527-2
Nominal Tensile Strain at Break	40	%	ISO 527-2
Flexural Modulus	2950	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	10	kJ/m ²	

23°C	11	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	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3
Flammability	Nominal Value	Test Method	
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	HB		
1.50 mm	HB		
Fill Analysis	Nominal Value	Unit	
Melt Density	1.16	g/cm ³	
Specific Heat Capacity of Melt	3000	J/kg/°C	
NOTE			
1.	10°C/min		

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