Delrin® FG150 NC010

ACETAL RESIN

DuPont Performance Polymers

Message:

High Viscosity Acetal Homopolymer Developed for Food Contact Applications

General Information	
UL YellowCard	E41938-100907468
Additive	Mold Release
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/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.4	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	1.90	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	2.0	%	
Flow	1.8	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield)	72.0	MPa	ISO 527-2
Tensile Strain (Yield)	22	%	ISO 527-2
Nominal Tensile Strain at Break	40	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m²	
23°C	12	kJ/m²	
Notched Izod Impact Strength (23°C)	10	kJ/m²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	97.0	°C	ISO 75-2/A
Melting Temperature [1]	178	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.1E-4	cm/cm/°C	
Transverse	1.0E-4	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
NOTE			
1.	10°C/min		

Recommended distributors for this material

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