Delrin® 510GR NC000

ACETAL RESIN

DuPont Performance Polymers

Message:

10% Glass Reinforced Medium Viscosity Acetal Homopolymer

General Information			
UL YellowCard	E41938-547879		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Mold Release		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)	>POM-GF10<		
Resin ID (ISO 1043)	POM-GF-10		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.49	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	12.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.4	%	
Flow	1.0	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	1.1	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.16	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5500	MPa	ISO 527-2
Tensile Stress (Break)	95.0	MPa	ISO 527-2
Tensile Strain (Break)	4.3	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	4800	MPa	
1000 hr	3500	MPa	
Flexural Modulus	4800	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m²	
23°C	5.0	kJ/m²	

Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	50	kJ/m²	
23°C	50	kJ/m²	
Notched Izod Impact Strength (23°C)	5.0	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	174	°C	ISO 75-2/B
1.8 MPa, Unannealed	164	°C	ISO 75-2/A
Vicat Softening Temperature	160	°C	ISO 306/B50
Melting Temperature [1]	178	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	7.0E-5	cm/cm/°C	
Transverse	1.0E-4	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.70		
1 MHz	3.90		
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability Classification (0.800 mm)	HB		IEC 60695-11-10, -20
NOTE			
1.	10°C/min		

Recommended distributors for this material

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