

Delrin® 525GR NC000

ACETAL RESIN

DuPont Performance Polymers

Message:

25% Glass Reinforced Medium Viscosity Acetal Homopolymer

General Information			
UL YellowCard	E41938-257643		
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Additive	Mold Release		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	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-GF25<		
Resin ID (ISO 1043)	POM-GF25		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	5.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	0.40	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	1.3	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.17	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9500	MPa	ISO 527-2
Tensile Stress (Break)	145	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	8500	MPa	
1000 hr	6000	MPa	
Flexural Modulus	8500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m²	

23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	50	kJ/m ²	
23°C	50	kJ/m ²	
Notched Izod Impact Strength (23°C)		kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	176	°C	ISO 75-2/B
1.8 MPa, Unannealed	172	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	3.5E-5	cm/cm/°C	
Transverse	1.0E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.70		
1 MHz	3.80		
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	HB		
1.50 mm	HB		
Additional Information	Nominal Value	Unit	Test Method
Emission of Organic Compounds	14.0	µgC/g	VDA 277
NOTE			
1.	10°C/min		

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