



Delrin®

acetal resin

PRELIMINARY DATA

Delrin® 525GR NC000 25% Glass Reinforced Acetal

Delrin® 525GR (formerly DE9191X) is a new grade of Delrin® which is 25% glass reinforced. It has very high stiffness, high heat deflection temperature, and low shrinkage.

Property	Test Method	Units	Value
Mechanical			
Tensile Strength 5mm/min (0.2in/min)	ASTM D 638	MPa (kpsi)	151 (21.9)
Elongation at Break 5mm/min (0.2in/min)	ASTM D 638	%	3.2
Tensile Modulus 5mm/min (0.2in/min)	ASTM D 638	MPa (kpsi)	9000 (1310)
Flexural Modulus	ASTM D 790	MPa (kpsi)	8000 (1160)
Izod Impact	ASTM D 256	J/m (ft lb/in)	96 (1.8)
Unnotched Impact	ASTM D 4812	J/m (ft lb/in)	1100 (20.6)
Thermal			
Heat Deflection Temperature 0.45MPa (66psi), Not Annealed	ASTM D 648	°C (°F)	177 (351)
1.8MPa (264psi), Not Annealed			173 (344)
CLTE, Flow 23 - 55C (73 - 130F)	ASTM E 831	E-4/K (E-4/F)	0.29 (0.16)
CLTE, Transverse 23 - 55C (73 - 130F)	ASTM E 831	E-4/K (E-4/F)	0.83 (0.46)
Flow			
Melt Flow Rate 1.05kg at 190C	ASTM D 1238	g/10 min	5

Contact DuPont for MSDS, general guides and/or additional information about ventilation, handling, purging, drying, etc.
Mechanical properties measured at 23°C (73°F) unless otherwise stated.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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Delrin® 525GR NC000

Property	Test Method	Units	Value
Electrical			
Surface Resistivity	ASTM D 257	ohm	2 E15
Volume Resistivity	ASTM D 257	ohm cm	4 E13
Dielectric Strength, Short Time 3.2mm (0.126in)	ASTM D 149	kV/mm (V/mil)	17.3 (440)
Dielectric Constant 1E6 Hz	ASTM D 150		3.8
Dissipation Factor 1E6 Hz	ASTM D 150		0.0076
Flammability			
UL94 Rating at Min. Thickness	UL94		HB
UL94 Min. Thickness Tested	UL94	mm (in)	0.75 (0.03)
Other			
Specific Gravity	ASTM D 792		1.6
Water Absorption Immersion 24hr	ASTM D 570	%	0.3
Mold Shrinkage Flow, 24hrs, 3.2mm (0.126in) Transverse, 24hrs, 3.2mm (0.126in)	ASTM D 955	%	0.3-0.6 1.0-1.3
Processing			
Melt Temperature Range		°C (°F)	210-220 (410-430)
Mold Temperature Range		°C (°F)	80-100 (175-210)
Processing Moisture Content		%	<0.1

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