



Delrin®

acetal resin

PRELIMINARY DATA

Delrin® 510GR NC000 10% Glass Reinforced Acetal

Delrin® 510GR (formerly DE9454) is a new grade of Delrin® which is 10% glass reinforced. It has 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)	100 (14.5)
Elongation at Break 5mm/min (0.2in/min)	ASTM D 638	%	5
Tensile Modulus 5mm/min (0.2in/min)	ASTM D 638	MPa (kpsi)	6100 (880)
Flexural Modulus	ASTM D 790	MPa (kpsi)	4300 (620)
Izod Impact	ASTM D 256	J/m (ft lb/in)	56 (1.1)
Thermal			
Heat Deflection Temperature 0.45MPa (66psi), Not Annealed 1.8MPa (264psi), Not Annealed	ASTM D 648	°C (°F)	176 (349) 170 (338)
Melting Point	ASTM D 3418	°C (°F)	178 (352)
Flow			
Melt Flow Rate 1.05kg at 190C	ASTM D 1238	g/10 min	7
Other			
Specific Gravity	ASTM D 792		1.47
Mold Shrinkage Flow, 24h, 3.2mm (0.126in) Transverse, 24h, 3.2mm (0.126in)	ASTM D 955	%	0.9-1.1 1.2-1.5
Processing			
Melt Temperature Range		°C (°F)	210-220 (410-430)
Mold Temperature Range		°C (°F)	80-100 (175-210)
Processing Moisture Content		%	<0.1

Contact DuPont for Material Safety Data Sheet, 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.

Delrin® is a DuPont registered trademark.

980401/991018

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