



# Delrin®

acetal resin

PRELIMINARY DATA

## Delrin® 500AF Highly loaded with Teflon® Fiber

Delrin® 500AF is an acetal homopolymer containing 20% Teflon® PTFE fibers. It is designed for applications requiring low wear and/or low coefficient of friction against carbon steel, itself, and other plastics. Very good processing characteristics.

Property	Test Method	Units	Value
<b>Mechanical</b>			
Tensile Strength 5mm/min (0.2in/min)	ASTM D 638	MPa (kpsi)	50.3 (7.3)
Elongation at Break 5mm/min (0.2in/min)	ASTM D 638	%	11
Tensile Modulus	ASTM D 638	MPa (kpsi)	2970 (430)
Flexural Modulus	ASTM D 790	MPa (kpsi)	2760 (400)
Izod Impact	ASTM D 256	J/m (ft lb/in)	32 (0.6)
<b>Thermal</b>			
Heat Deflection Temperature 0.45MPa (66psi), Not Annealed	ASTM D 648	°C (°F)	163 (325)
1.8MPa (264psi), Not Annealed			95 (203)
Melt Flow Rate 1.05kg at 190C	ASTM D 1238	g/10 min	2
<b>Other</b>			
Specific Gravity	ASTM D 792		1.53
Mold Shrinkage Flow, 3.2mm (0.125in)	ASTM D 955	%	1.90
Transverse, 3.2mm (0.125in)			1.70
<b>Processing</b>			
Melt Temperature Range		°C (°F)	205-225 (400-440)
Mold Temperature Range		°C (°F)	80-100 (175-210)
Processing Moisture Content		%	<0.1

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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