



Delrin®

acetal resin

Delrin® 500AF

20% Teflon® PTFE Fiber in Acetal

Delrin® 500AF is a medium viscosity resin 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
Mechanical			
Tensile Strength 5mm/min (0.2in/min)	ASTM D 638	MPa (kpsi)	50 (7.3)
Elongation at Break 5mm/min (0.2in/min)	ASTM D 638	%	11
Tensile Modulus	ASTM D 638	MPa (kpsi)	2910 (420)
Flexural Modulus	ASTM D 790	MPa (kpsi)	2710 (390)
Izod Impact	ASTM D 256	J/m (ft lb/in)	31 (0.6)
Thermal			
Heat Deflection Temperature 0.45MPa (66psi), Not Annealed	ASTM D 648	°C (°F)	163 (325)
1.8MPa (264psi), Not Annealed			95 (203)
Flow			
Melt Flow Rate 1.05kg at 190C	ASTM D 1238	g/10 min	2
Other			
Specific Gravity	ASTM D 792		1.53
Mold Shrinkage Flow, 24h, 3.2mm (0.126in)	ASTM D 955	%	1.8-2.0
Transverse, 24h, 3.2mm (0.126in)			1.5-1.7
Processing			
Melt Temperature Range		°C (°F)	210-220 (410-430)
Mold Temperature Range		°C (°F)	80-100 (175-210)
Processing Moisture Content		%	<0.2

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.

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