

# Delrin® Stock Shapes AF Blend

Acetal (POM) Homopolymer

Ensinger Inc.

## Message:

Ensinger's DELRIN® 100AF blend stock shapes are a 13% PTFE fiber filled homopolymer acetal. They offer an improved coefficient of friction, better lubricity, and improved wear characteristics over unfilled and PTFE powder filled acetals. This advanced acetal material uses a combination of PTFE fibers uniformly dispersed in Delrin acetal resin. The combination results in improved wear characteristics along with strength, toughness, dimensional stability and machinability. The material's exceptional wear properties and internal lubrication serves to reduce or eliminate the need for external lubricants.

Ensinger can also produce a full strength 20% PTFE filled version.

DELRIN® 100AF is often used for applications such as bearing, bushings, cams and other antifriction devices that also require extra toughness.

General Information			
Filler / Reinforcement	PTFE fiber, 13% filler by weight		
Features	Low friction coefficient		
	Homopolymer		
	Good wear resistance		
	Good toughness		
	Self-lubricating		
Uses	Bushings		
	Cam		
	Bearing		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	77		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	2360	MPa	ASTM D638
Tensile Strength (Yield)	54.2	MPa	ASTM D638
Tensile Strain (Yield)	10	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	168	°C	ASTM D648
1.8 MPa, not annealed	118	°C	ASTM D648
Peak Melting Temperature	175	°C	ASTM D3418
Service Temperature			
Intermittent	149	°C	


Long Term	85	°C
Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94
Additional Information		
Data obtained from extruded shapes material.		
NOTE		
1.	1.0 mm/min	

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Recommended distributors for this material

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