



## DELRIN™ AFDE588 Shape Data from Quantum Polymers

Shape Data Property Tested	ASTM Test Method	Units	DELRIN™ AFDE588 Values
Density	D792-13	g/cm <sup>3</sup>	1.54
Rockwell Hardness	D785-08	R Scale	115
Melting Point	D3418-15	°C	177
Water Absorption	D570-98	%	0.2
Tensile Strength	D638-14	MPa	46.9
Tensile Impact Strength	D1822-13	ft-lb/in <sup>2</sup>	8.5
Tensile Elongation at Break	D638-14	%	13
Tensile Modulus (Young's)	D638-14	MPa	2745
Dimensional Stability (change in diameter)	D6713-14	%	-0.1
Dimensional Stability (change in thickness)	D6713-14	%	-0.3

### APPLICATIONS

- Valve seats
- Bearings
- Bushings
- Thrust washers
- Seals
- Gaskets
- Submarine components

### FEATURES

- Compliance to the requirements of ASTM D6100-14 S-POM0143
- Compliance to NAVSEA 5959311 rev C and NAVSEA 803-4384678 rev B and C
- Complete traceability to resin lot and batch
- Small minimum order requirements

### SIZES

#### Plates

Thickness: 3/8" to 6"  
Width: 12", 18", 24"  
Length: 4'

#### Rods

Diameter: 3/8" to 10"  
Length: 4' | 8' | 10'

#### Tubular Bars

OD: 3" to 6", 10", 12"  
Wall Thickness ≥ 1/2"  
Length: 4' | 8'



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