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## Delrin (Acetal Homopolymer)

Similar properties to that of acetal copolymer, however with marginally superior mechanical properties & better wear resistance. Unfortunately a slightly lower max continuous operating temperature and not as resistant to hot water:

High rigidity

- Continuous working temperature 90°C (max 145°C)
- Good impact resistance
- Good chemical resistance (pH5-11)
- Low moisture absorption
- **Excellent dimensional stability**

Natural white colour

Ideal for close tolerance parts

Application:

Similar applications to acetal copolymer but where marginally better mechanical properties and wear resistance are required.

## **Delivery Programme**

## Standard Rod 3m long

Diameter(mm):

5 (Min)

50 (Max)

Standard Rod 1, 2 & 3m long

Diameter(mm):

56 (Min)

200 (Max)

Precision Ground Rod 3m long

Diameter(mm):

7.94 (Min)

50.8 (Max)

## Technical specification

	ASTM		Delrin
	Test		
Property	Method	Units	
olour			White
pecific Gravity	D792		; 42
Vater Absorption			
Saturation in water	D570	o's	0.9
ensile Strength	D638	N/mm*	70
ensile Modulus	D638	N/mm·	3105
longation	D638	%	>30
lexural Strength	D790	N/mm <sup>*</sup>	98
lexural Modulus	D790	1/mm <sup>2</sup>	2620
Hardness	Rockwell	•	R120
	Shore D	-	
Melt Point	D2117	•c	175
Max allowable service temp in air			
for short periods (1)		°C	145
continuously for 20000hrs (2)		°C	90
Minimum Service Temperature	-	°C	-50
Linear thermal expansion coefficient	D696	K × 10-1	11
Thermal Conductivity	C117	W/K.m	0 23
Flammability	⊙635		Slow
			Burning
UL (thickness in mm)	UL-94		HB
Volume Resistivity	D257	Qhm.cm	>10"
Dielectric Strength (3)	0149	kV/mm	>20
Outside applications - UV resistance	-		C
Acids - Strong (pH < 3)			C
Alkalis - Strong (pH > 11)			D
Chlorinated Hydrocarbons	-		A
Hot Water		,	D

Authorised Distributor

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