



**MECHETEC<sup>®</sup>**  
**DELRIN<sup>®</sup>**



MECHETEC DELRIN - Polyoxymethylene Homopolymer (POM-H)



Easily Machined and Fabricated



Great Dimensional Stability

## APPLICATIONS

- Gears
- Manifolds
- Wear Strips
- Timing Screws
- Pump Components
- Bushings and Bearings

## KEY FEATURES

- 185°F Continuous Use Temperature
- Easily Machined and Fabricated
- High Strength and Stiffness
- Superior Wear Resistance
- Excellent Toughness

## SHAPES AND SIZES

### ROD DIAMETER

NATURAL	0.25" - 6.0"
BLACK	0.25" - 6.0"
Lf13	0.25" - 6.0"
DELRIN AF Blend	0.25" - 6.0"

### SHEET THICKNESS

NATURAL	0.25" - 3.0"
BLACK	0.25" - 3.0"
Lf13	0.25" - 3.0"
DELRIN AF Blend	0.25" - 3.0"



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	Test Method	Units	<b>NATURAL and BLACK</b> Unfilled Homopolymer	<b>DELRIN Lf13</b> 13% PTFE Powder Filled Homopolymer	<b>DELRIN AF Blend</b> 13% PTFE Fiber Filled Homopolymer
<b>Mechanical</b>					
Specific Gravity	ASTM-D792	—	1.42	1.48	1.5
Tensile Strength	ASTM-D638	psi	9,600-11,000	8,000-8,500	7,600-8,000
Tensile Elongation	ASTM-D638	%	30-50	15-30	15-30
Tensile Modulus of Elasticity	ASTM-D638	psi	450,000	600,000	550,000
Flexural Strength	ASTM-D790	psi	14,300	13,500	12,500
Flexural Modulus of Elasticity	ASTM-D790	psi	470,000	410,000	400,000
Compressive Strength	ASTM-D695	psi	16,000	15,500	16,000
Izod Notched Impact	ASTM-D256	ft.-lb./in.	1.2	0.8	0.9
Rockwell Hardness	ASTM-D785	M or R scale	M94	M89	M89
<b>Thermal</b>					
Coef. of Linear Thermal Expansion	ASTM-D696	in./in./deg F	4.5 x 10 <sup>-5</sup>	5.2 x 10 <sup>-5</sup>	5.0 x 10 <sup>-5</sup>
Max. Continuous Use Temp.	Internal Std.	°F	185	185	185
Heat Deflection Temp. @ 264 psi	ASTM-D648	°F	257	235	260
Melting Point	ASTM-D3418	°F	347	347	347
<b>Electrical</b>					
Dielectric Strength-Short Term	ASTM-D149	volts/mil	500	400	400
Dielectric Constant @ 60 Hz	ASTM-D150	—	3.7	3.1	3.1
Dielectric Constant @ 10 <sup>6</sup> Hz	ASTM-D150	—	3.7	3.1	3.1
Dissipation Factor @ 60 Hz	ASTM-D150	—	0.005	0.009	0.009
Volume Resistivity	ASTM-D257	ohm-cm	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>
<b>Miscellaneous</b>					
Water Absorption/24 hrs.	ASTM-D570	% weight	0.25	0.23	0.2
Water Absorption @ Saturation	ASTM-D570	% weight	0.9	0.8	0.72
Flammability	UL-94	—	HB	HB	HB
Dynamic Coefficient of Friction	Internal Std.	—	0.2	0.16	0.17
<b>Agency Compliance</b>					
FDA	---	---	Yes	Yes	No
USDA	---	---	Yes	Yes	No
NSF	---	---	Yes	No	No
Other DELRIN Specialties Available- DELRIN DE-588 and DELRIN 100AF Call for Details and Pricing					
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