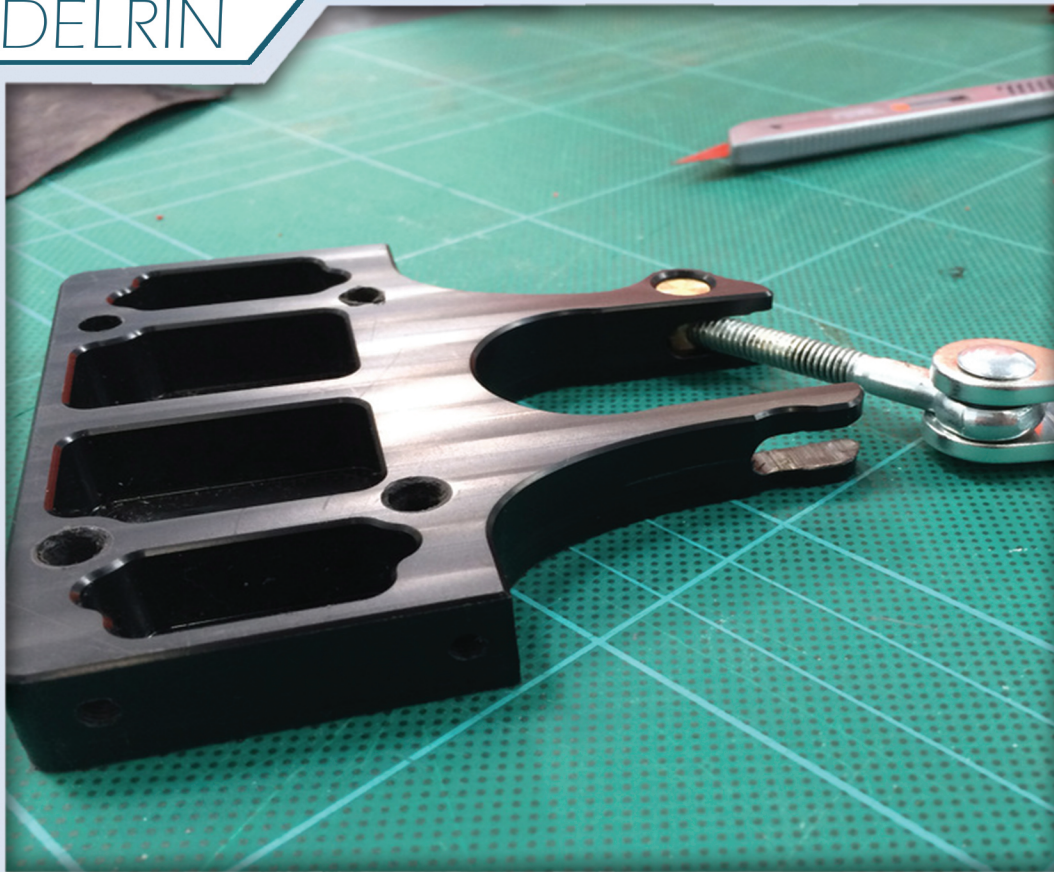




POLYMER INDUSTRIES

GEARED TOWARDS EXCELLENCE

UNITAL[®]
DELRIN[®]



UNITAL DELRIN - Polyoxymethylene Homopolymer (POM-H)



Easily machined



Great dimensional stability

APPLICATIONS

Pistons
Valves
Manifolds
Timing Screws
Scraper Blades
Food Product Forming Dies

Gears
Wear strips
Pump Components
Bushings and Bearings
Electrical Components

SHAPES AND SIZES

Rod Diameter
0.25" - 6.0"

Sheet Thickness
0.25" - 3.0"

Sheet Length x Width
48" x 24"



UNITAL[®] DELTRIN[®]

	Test Method	Units	UNITAL H UNITAL H BK	UNITAL Lf13	DELTRIN AF Blend
Mechanical			Unfilled Homopolymer	13% PTFE Powder	13% PTFE Fiber
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
Thermal					
Coef. of Linear Thermal Expansion	ASTM-D696	in./in./deg F	6.5 x 10 ⁻⁵	5.2 x 10 ⁻⁵	5.0 x 10 ⁻⁵
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
Electrical					
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 @ 106Hz	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 ¹⁵	10 ¹⁵	10 ¹⁵
Miscellaneous					
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
Agency Approvals					
FDA			Yes	Yes	No
USDA			Yes	Yes	No
NSF			Yes	No	No
3-A Dairy			Yes	Yes	Yes

Other DELTRIN Specialties Available- DELTRIN DE-588 and DELTRIN 100AF with 20% PTFE Fiber Filled
Call for Details and Pricing

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