

Property	Units	Value	ASTM Method
<b>Physical</b>			
Specific Gravity	g/cm <sup>3</sup> (lbs/in <sup>3</sup> )	1.77–1.79 (0.064–0.065)	D 792
Moisture Absorption	%	0.02	D 570
<b>Mechanical</b>			
Hardness	Shore D	76-80	D2240
Tensile Strength @ Break @ 23°C	psi	6000	D 638
Tensile Strength @ Yield @ 23°C	psi	6500	D 638
Elongation @ Break @ 23°C	%	50-250	D 638
Elongation @ Yield @ 23°C	%	10	D 638
Tensile Modulus @ 23°C	psi	225,000	D 638
Flexural Strength @ 23°C	psi	6960-8000	D 790
Flexural Modulus @ 23°C	psi	250,000	D 790
Izod Impact (Unnotched) @ 23°C	J/m (ft-lb/in)	80–130 (1.5–2.5)	D 256
Compressive Strength @ 23°C (min)	Mpa (psi)	61 minimum (8850)	D 695
Coefficient of Friction			
Static	—	0.15–0.25	D 1894
Dynamic	—	0.10–0.25	D 1894
<b>Thermal</b>			
Heat Distortion Temperature			
	TMA		
@ 66 psi (0.46 Mpa)	°C (°F)	125–140 (257–284)	—
@ 264 psi (1.82 Mpa)	°C (°F)	105–115 (221–240)	—
Thermal Conductivity @ 23°C–130°C	W/m/k (BTU/in)/(HR/ft/°F)	0.19–0.22 (1.3–1.5)	C 177
Coef of Thermal Expansion	°C <sup>-1</sup> (°F <sup>-1</sup> )	10–12 × 10 <sup>-5</sup> (5.6–6.7 × 10 <sup>-5</sup> )	D 696
Max Continuous Use	°F	235°	—
Brittleness Temperature	°C (°F)	-43 (-46)	D 2236
<b>Flammability</b>			
Factory Mutual		4910 Listed	File #3D1Q5.AM
Limiting Oxygen Index	%	43	D 2863
<b>Electrical</b>			
Volume Resistivity	ohm/cm (ohm/in)	1.4 × 10 <sup>15</sup> (5.5 × 10 <sup>15</sup> )	D257
Dielectric Constant			
@ 60 Hz	—	6.8	D 150
@ 1 KHz	—	6.9	D 150
@ 1 MHz	—	6.0	D 150
Dissipation Factor			
@ 60 Hz	—	0.032	D 150
@ 1 KHz	—	0.013	D 150
@ 1 MHz	—	0.153	D 150
Arc Resistance, minimum	(sec)	50	D 495
Dielectric Strength, 0.125" thick	V/mil	310	D 149
Dissipation Factor	60 Hz	0.0019	D 150

**Some of the machined parts we do are:**

Balls	Nozzles	Semiconductor Parts
Back-Up Rings	O-Rings	Sleeves
Bearings	Pads	Spacers
Blocks	Parts	Supports
Bushings	Plugs	Valve Seats
Cams	Rings	Washers
Caps	Rods	Wear Pads
Guides	Rollers	Wear Rings
Medical Parts	Seals	

**Manufacturing Capabilities:**

- CNC Machining
- CNC Milling
- CNC Turning
- Fabrication Services
- Kynar Welding
- Machining

**Material Highlights:**

- Resistance to most chemicals and solvents
- Fire Safe Meets FM4910 criteria and is FM listed
- FDA compliant
- Meets ASTM D6713-01 standards
- High tensile mechanical strength from -22° F to +300°F
- Resistance to weather
- Easy to fabricate and thermoplastically weldable

**Applications:**

- Fluid Handling
- Food Handling
- Chemical Processing