



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## TEFLON®

<b>Item:</b>	Teflon® (polytetrafluoroethylene)	
<b>Description:</b>	<p>Meets Military Specification MIL-I-19161A</p> <p>Polytetrafluoroethylene, commonly referred to as PTFE, Teflon®, &amp; even FEP, is a synthetic fluoropolymer of tetrafluoroethylene, for this reason, it is suitable for numerous applications.</p> <p>Vanderveer Industrial Plastics has the ability to machine Teflon® to close tolerances, ensuring we deliver, and you receive, the exact PTFE / FEP machined parts you need.</p> <p>Several grades of Teflon® are available. For additional information on Teflon plastic materials, contact your local Vanderveer Industrial Plastics representative.</p>	
<b>Applications:</b>	<ul style="list-style-type: none"> <li>• Electrical insulators</li> <li>• Seals</li> <li>• Valve plates</li> </ul>	
<b>Key Characteristics:</b>	<ul style="list-style-type: none"> <li>• High Impact resistance</li> <li>• High creep resistance</li> <li>• Excellent dimensional stability</li> </ul>	
<b>Availability:</b>	<b>Fabricated Parts:</b>	The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers.

Length, width, thickness, and diameter sizes are available in a wide variety, with the proper product specified for your particular application. Product colors will vary according to material type.

Typical Properties	Test Method	Teflon® unfilled	Teflon® 25% glass filled	Teflon® 25% carbon filled
Specific Gravity (lb/in <sup>3</sup> )	ASTM D792	0.078	0.081	0.075
Water Absorption, immersion 24 hours (%)	ASTM D229	<0.01	0.02	0.05
Tensile Strength (psi)	ASTM D638	3,900	2,100	1,900
Tensile Elongation at Break (%)	ASTM D638	300	270	75
Tensile Modulus (psi)	ASTM D638	80,000	--	--
Flexural Strength (psi)	ASTM D790	no break	1,950	2,300
IZOD impact, notched (ft-lbs/in of notch)	ASTM D256	3.5	--	--
Flexural Modulus (psi)	ASTM D790	72,000	190,000	160,000
Melting temperature (°F / °C)	ASTM D3418	635° / 335°	635° / 335°	635° / 335°
Flammability Rating	UL94	V-0	V-0	V-0
Coefficient of Linear Thermal Expansion (x 10 <sup>-5</sup> in./in./°F)	ASTM D696	7.5	6.4	6.0
Dielectric Strength, short time, 1/8" thick (V/mil)	ASTM D149	285	--	--

AS9100C Certified | ISO/AS9100 Certified QMS | RoHS Compliant | ITAR Compliant

*All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.*