



Typical Properties of

## Graphite Filled PTFE

Polytetrafluoroethylene with 20% Graphite Filler

Process: Compression Molded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	2.09
Tensile Strength	D638	psi	2,250
Tensile Modulus	D638	psi	N / A
Elongation	D638	%	170
Flexural Strength	D790	psi	1,850
Flexural Modulus	D790	psi	125,000
Compressive Strength	D695	psi	2,250
Compressive Modulus	D695	psi	78,000
Hardness, Rockwell	D785	--	N / A
Hardness Durometer	--	--	D62
Izod Impact (notched)	D256	ft. lb of notch	N / A
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.08
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	$6.9 \times 10^{-5}$
Continuous Use Temperature	--	°F	500
Heat Deflection Temperature	D648	°F	N / A
Glass Transition Temperature	D3418	°F	68-75
Melting Point	D3418	°F	621
Thermal Conductivity	E1530-11	BTU in/hr ft <sup>2</sup> °F	5.9
Dielectric Strength	D149	Volts/mil	N / A
Surface Resistivity	EOS/ESD 511.11	ohm/square	N / A
Flammability	UL94	--	N / A
Water Absorption, 24 hrs.	D570	% by weight	N / A
Water Absorption, Saturation	D570	% by weight	N / A
Limiting PV (4:1 Safety Factor)	--	--	N / A
K-Factor	--	--	N / A
FDA Compliance	--	--	No

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.  
All values at 73 F unless otherwise stated.