



## Marco Compound # PL1001 Graphite Filled Polyimide Technical Datasheet

### TYPICAL PHYSICAL PROPERTIES

General	ASTM No.	US Value	SI Units
Specific Gravity	D792	1.38	1.38
Water Absorption (24 hrs. @ 23° C)	D570	7%	7%
Dynamic Coefficient of Friction	D1894	0.25	0.25
Tensile Strength	D638	7,850 psi	54.5 KPa
Elongation at Break	D638	5%	5%
Flexural Strength	D790	14,100 psi	97.9MPa
Flexural Modulus	D790	0.39 Mpsi	2.7 GPa
Compressive Strength	D695	15,300 psi	106.2 MPa
Izod Impact, notched, ft-lb/in @ 1/8"	D256	0.8	0.4 J/cm
Hardness, Rockwell M	D785/D2240	54	54
CLTE, Linear $\mu\text{in/in} - ^\circ\text{F}$ (<T <sub>g</sub> )	D696	24	43.2 $\mu\text{in/m} - ^\circ\text{C}$
HDT @264 psi, °F	D696	24	43.2
Flammability Rating	UL-94	V-0	V-0
Disipation Factor @ 1MHz	D150	.0098	.0098
Dielectric Constant @ 1MHz	D150	9.4	9.4
Surface Resistivity, $10^{16}$ ohm	D357	1	1
Volume Resistivity, $10^{17}$ ohm-cm	D357	2	2

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.