



TYPICAL PROPERTIES of FLUROSINT® 207 FDA-COMPLIANT MICA-FILLED PTFE

ASTM or UL test	Property	Fluorosint 207 (FDA)
PHYSICAL		
D792	Density (lb/in ³)	0.083
	(g/cm ³)	2.30
D570	Water Absorption, 24 hrs (%)	0.03
D570	Water Absorption, Saturation (%)	0.20
MECHANICAL		
D638	Tensile Strength (psi)	1,500
D638	Tensile Modulus (psi)	250,000
D638	Tensile Elongation at Break (%)	50
D790	Flexural Strength (psi)	2,000
D790	Flexural Modulus (psi)	350,000
D732	Shear Strength (psi)	1,700
D695	Compressive Strength (psi)	3,800
D695	Compressive Modulus (psi)	225,000
-	Deformation Under Load (% @ 2000psi @ 122°F)	1.1
D785	Hardness, Rockwell R	R50
D2240	Hardness, Shore D	D65
D256, Type "A"	IZOD Notched Impact (ft-lb/in)	1.0
QTM55007	Coefficient of Friction (dry vs steel dynamic)	0.1
QTM55007	Limiting PV (4:1 safety factor)	8,000
QTM55007	Wear Factor "k" x 10 ⁻¹⁰	30
THERMAL		
E-831 (TMA)	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	5.7
D648	Heat Deflection Temp (°F / °C) at 264 psi	210 / 99
D3418	Melting Temp (°F / °C)	621 / 327
-	Max Continuous Service Temp (°F / °C)	500 / 260
F433	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	-
UL94	Flammability Rating	V-0
ELECTRICAL		
D149	Dielectric Strength (V/mil) short time, 1/8" thick	200
D150	Dielectric Constant at 1 MHz	2.65
D150	Dissipation Factor at 1 MHz	0.008
EOS/ESD S 11.11	Surface Resistivity (ohms per square)	> 10 ¹²

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.

