

TYPICAL PROPERTIES OF FLUOROSINT®			
ASTM or UL test	Property	Fluorosint® 500	Fluorosint® 207
PHYSICAL			
D792	Density (lb/in ³) (g/cm ³)	0.083 2.32	0.083 2.30
D570	Water Absorption, 24 hrs (%)	0.10	0.03
MECHANICAL			
D638	Tensile Strength (psi)	1,100	1,500
D638	Tensile Modulus (psi)	300,000	250,000
D638	Tensile Elongation at Break (%)	10	50
D790	Flexural Strength (psi)	2,200	2,000
D790	Flexural Modulus (psi)	500,000	350,000
D695	Compressive Strength (psi)	4,000	3,800
D695	Compressive Modulus (psi)	250,000	225,000
D785	Hardness, Shore D	D55	D50
D256	IZOD Notched Impact (ft-lb/in)	0.9	1.0
THERMAL			
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	2.35	5.70
D648	Heat Deflection Temp (°F / °C) at 264 psi	270 / 132	210 / 99
D3418	Melting Temp (°F / °C)	621 / 327	621 / 327
-	Max Operating Temp (°F / °C)	500 / 260	500 / 260
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	5.30 18.3	N/A N/A
UL94	Flammability Rating	V-O	V-O
ELECTRICAL			
D149	Dielectric Strength (V/mil) short time, 1/8" thick	275	200
D150	Dielectric Constant at 1 MHz	2.85	2.65
D150	Dissipation Factor at 1 MHz	0.008	0.008
D257	Volume Resistivity (ohm-cm) at 50% RH	> 10 ¹³	> 10 ¹²

These products are available from

