

# Product Data Sheet

## Fluorosint® 207 PTFE



Fluorosint 207's unmatched dimensional stability, excellent creep resistance and white color uniquely position this material to serve FDA regulated applications. It is non-permeable in steam and complies with the FDA's regulation 21 CFR 175.300. Its relative wear rate is 1/20 the rate of PTFE below 300°F (150°C).

Property	Method	Unit	Value
<b>Mechanical</b>			
Specific Gravity, 73°F	D792		2.30
Tensile Strength, 73°F	D638	psi	1,500
Tensile Modulus of Elasticity, 73°F	D638	psi	250,000
Elongation, 73°F	D638	%	50.0
Flexural Strength, 73°F	D790	psi	2,000
Flexural Modulus, 73°F	D790	psi	350,000
Shear Strength, 73°F	D732	psi	1,700
Compressive Strength, 10% Def., 73°F	D695	psi	3,800
Compressive Modulus of Elasticity, 73°F	D695	psi	225,000
Hardness, Rockwell, Scale as noted, 73°F	D785		R50
Hardness, Durometer, Shore D scale, 73°F	D2240		D65
Izod Impact (notched), 73°F	D256 Type A	ft-lb/in	1.0
Coefficient of Friction (Dry vs Steel) Dynamic	PTM55007		0.10
Limiting PV, 73°F	PTM55007	psi-fpm	8,000
k (wear) factor	PTM55010		30
<b>Thermal</b>			
Coefficient of linear Thermal Expansion	E-831(TMA)	in/in/°F	5.70 x 10 <sup>-5</sup>
Deflection Temperature 264 psi	D648	°F	210
Melting Point (crystalline) peak	D3418	°F	621
Continuous Service Temperature in Air (Max.)		°F	500
<b>Electrical</b>			
Dielectric Strength, Short Term	D149(2)	Volts/mil	200
Surface Resistivity	EOS/ESD S11.11	Ohm/square	>10 <sup>12</sup>
Dielectric Constant, 10 <sup>6</sup> Hz	D150(2)		2.65
Dissipation Factor, 10 <sup>6</sup> Hz	D150(2)		0.008

**For additional information about our products call 1-800-366-0300 or via e-mail at [select.support@qplas.com](mailto:select.support@qplas.com)**

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<b>Chemical</b>			
Acids, Weak, 73°F/23°C, acetic acid, dilute hydrochloric or sulfuric			Acceptable Service
Acids, Strong, 73°F/23°C, conc. hydrochloric or sulfuric			Acceptable Service
Alkalies, Weak, 73°F/23°C, dilute ammonia or sodium hydroxide			Acceptable Service
Alkalies, Strong, 73°F/23°C, conc. ammonia or sodium hydroxide			Acceptable Service
Hydrocarbons-Aromatic, 73°F/23°C, benzene, toluene			Acceptable Service
Hydrocarbons-Aliphatic, 73°F/23°C, gasoline, hexane, grease			Acceptable Service
Ketones, Esters, 73°F/23°C, acetone, methyl ethyl ketone			Acceptable Service
Ethers, 73°F/23°C, diethyl ether, tetrahydrofuran			Acceptable Service
Chlorinated Solvents, 73°F/23°C, methylene chloride, chloroform			Acceptable Service
Alcohols, 73°F/23°C, methanol, ethanol, anti-freeze			Acceptable Service
Inorganic Salt Solutions, 73°F/23°C, sodium chloride, potassium cyanate			Acceptable Service
Continuous Sunlight, 73°F/23°C			Acceptable Service
<b>Miscellaneous</b>			
Water Absorption Immersion, 24 hr	D570	%	0.03
Water Absorption Immersion, Sat.	D570	%	2.00
Ionic Impurities - Na (Sodium)	Total Digestion	ppm	20.00
Ionic Impurities - K (Potassium)	Total Digestion	ppm	1,200.00
Ionic Impurities - Fe (Iron)	Total Digestion	ppm	40.00
Outgassing TML (Total Mass Loss)	E595	%	0.00
CVCM (Collected Volatile Condensable Material)	E595	%	0.00
WVR(Water Vapor Regained)	E595	%	0.00
<b>Compliance</b>			
UL94			V-0
FDA			Yes
USDA			Yes

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