



3837 Imperial Way  
 Stockton CA, 95215  
 Phone: 1-800-590-PLAS  
 Fax: 209-464-5760

## Semilon PPS Typical Properties

Category	Property	Test Method	Units	Values
Mechanical	Specific Gravity, 73°F	D792	g/cm3	1.40
	Tensile Strength, 73°F Yield	D638	psi	13000
	Tensile Modulus of Elasticity, 73°F	D638	ksi	500
	Tensile Elongation (at break), 73°F	D638	%	>5
	Flexural Strength, 73°F	D790	psi	20000
	Flexural Modulus of Elasticity, 73°F	D790	ksi	550
	Shore D		D	88
	Coefficient of Friction (Dry vs. Steel) Dynamic	QTM 55007	-	n/a
Thermal	Coefficient of Linear Thermal Expansion (-40°F to 300°F)	D696	in./in./°F	2.9E-05
	Heat Deflection Temperature 264 psi	D648	°F	219
	Tg-Glass Transition	D3418	°F	190
	Melting Point Peak	D3418	°F	536
	Continuous Service Temperature in Air (Max.)	-	°F	n/a
	Thermal Conductivity	F433	BTU in./hr.ft. <sup>2</sup> °F	n/a
	Flammability @ 3.1 (1/8")	UL 94	-	V-0
Electrical	Dielectric Strength, Short Term	D149	Volts/mil	460
Chemical	Water Absorption Immersion, Saturation	D570	% by wt.	0.02
	Water Absorption (24 Hours @ 23°C/73°F)	D570	%	0.01

\*Typical values only. Actual properties of individual batches will vary within specification limits.