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Semilon PKCF30 Typical Properties

PEEK 30% Carbon Fiber Filled

Category	Property	Test Method	Units	Values
Mechanical	Specific Gravity, 73°F	D792	g/cm ³	1.41
	Tensile Strength, 73°F Yield	D638	psi	19000
	Tensile Modulus of Elasticity, 73°F	D638	ksi	1100
	Tensile Elongation (at break), 73°F	D638	%	>8
	Flexural Strength, 73°F	D790	psi	27000
	Flexural Modulus of Elasticity, 73°F	D790	ksi	1200
	Shore D		D	87
	Coefficient of Friction (Dry vs. Steel) Dynamic	QTM 55007	-	0.2
Thermal	Coefficient of Linear Thermal Expansion (-40°F to 300°F)	D696	in./in./°F	7.7E-05
	Heat Deflection Temperature 264 psi	D648	°F	599
	Tg-Glass Transition	D3418	°F	289
	Melting Point Peak	D3418	°F	651
	Continuous Service Temperature in Air (Max.)	-	°F	480
	Thermal Conductivity	F433	BTU in./hr.ft. ² °F	6.38
	Flammability @ 3.1 (1/8")	UL 94	-	V-0
Electrical	Dielectric Strength, Short Term	D149	Volts/mil	n/a
Chemical	Water Absorption Immersion, Saturation	D570	% by wt.	0.3
	Water Absorption (24 Hours @ 23°C/73°F)	D570	%	0.06

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