



CHawk Technology Intl., Inc.

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PET Typical Properties

Category	Property	Test Method	Units	Values
Mechanical	Specific Gravity, 73°F	D792	g/cm ³	1.4
	Tensile Strength, 73°F Yield	D638	psi	11500
	Tensile Modulus of Elasticity, 73°F	D638	ksi	450
	Tensile Elongation (at break), 73°F	D638	%	50
	Flexural Strength, 73°F	D790	psi	18000
	Flexural Modulus of Elasticity, 73°F	D790	ksi	490
	Shore D		D	85
	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	3.30E-05
	Heat Deflection Temperature 264 psi	D648	°F	240
	Tg-Glass Transition	D3418	°F	-
	Melting Point Peak	D3418	°F	491
	Continuous Service Temperature in Air (Max.)	-	°F	210
	Thermal Conductivity	F433	BTU in./hr.ft. ² °F	2
	Flammability @ 3.1 (1/8")	UL 94	-	HB
Electrical	Dielectric Strength, Short Term	D149	Volts/mil	385
Chemical	Water Absorption Immersion, Saturation	D570	% by wt.	0.9
	Water Absorption (24 Hours @ 23°C/73°F)	D570	%	0.07

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

