



Kaptolam Pro® Polyimide Film						
TYPICAL PROPERTIES of Kaptolam Pro® POLYIMIDE FILMS (at 73°F)						
ASTM or UL test	Property	Kaptolam® 0.009" (.23mm)	Kaptolam® 0.012" (.31mm)	Kaptolam® 0.015" (.38mm)	Kaptolam® 0.030" (.76mm)	Kaptolam® 0.050" (1.27mm)
PHYSICAL						
D792	Density (lb/in ³) (g/cm ³)	0.051 1.42	0.051 1.42	0.051 1.42	0.051 1.42	0.051 1.42
D570	Water Absorption, saturation (%)	4.0	4.0	4.0	4.0	4.0
MECHANICAL						
D638	Tensile Strength (psi)	32,490	34,000	35,000	33,300	31,800
D638	Yield Point at 3% (psi)	6,100	6,500	7,800	7,100	6,100
D638	Stress to Produce 5% Elongation (psi)	10,300	10,800	11,200	10,370	9,400
D790	Ultimate Elongation (%)	65	64	63	57	56
D790	Tensile Modulus (psi)	330,000	332,000	334,000	274,000	264,000
THERMAL						
-	Glass Transition Temp (°F / °C)	664 / 351	664 / 351	664 / 351	664 / 351	664 / 351
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	11	11	11	11	11
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	0.0025 0.084	0.0025 0.084	0.0025 0.084	0.0025 0.084	0.0025 0.084
C177	Specific Heat (J/g-°K)	1.09	1.09	1.09	1.09	1.09
UL94	Flammability Rating	V-0	V-0	V-0	V-0	V-0
ELECTRICAL						
D149	Dielectric Strength (V/mil) short time	2790	2000	1940	1270	arc
D150	Dielectric Constant at 1 kHz	3.45	3.55	3.58	3.74	3.72
D150	Dissipation Factor	0.0021	0.0020	0.0018	0.0023	0.0026

NOTE: The information contained herein are typical values intended for reference and comparison purposes only.

They should NOT be used as a basis for design specifications or quality control.

All values at 73°F (23°C) unless otherwise noted. Kaptolam® is an exclusive trademark of Professional Plastics, Inc.

Order Online at www.professionalplastics.com/KaptolamPro

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