PRECISION PRODUCTS GROUP, INC.

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Clarifoil Acetate Film

Bulletin #P-14

- A smooth transparent material for use in electrical applications requiring high dielectric strength, abrasion resistance and water and moisture repellency. An Acetate wrapped tube can be wound, cut and packaged at the winding machine
- Clarifoil Acetate Film has the following physical properties:

Typical physical properties of 'Clarifoil' measured at 23°C and 50% RH.	**UP to 100 microns of thickness**	**125 – 380 micros**
Specific Gravity	L31	L30
Tensile near distortion temperature (ASTM D1637)	140°C	123°C
Heat shrinkage % linear 100° for 4 hours (ASTM D1204)	1.1% maximum	1.1% maximum
Water vapor permeability g/m^2/ 24 hours for 25 microns of thickness. 0-100 RH gradient.	420	520
Tensile yield strength, Kgs/cm^2 (ASTM D882)	510	475
Tensile strength at break, Kgs/cm^2 (ASTM D882)	700	650
Elongation at break, % (ASTM D882)	20	30
Elastic modulus in tension, Kgs/cm^2 (ASTM D882)	2.8×10^4	2.3×10^4
Mullens bursting strength (ASTM D774)	6 kg / cm^2 (50 micron)	24 kg / cm^2 (250 micron)
Elmendorff tear strength (ASTM D689)	10 gms (50 micron)	300 gms (250 micron)
Volume Resistivity, ohms/ cm^2	6.5×10^{12}	6×10^{12}
Dielectric constant at 100 KHz	4.9	4.2
Loss factor at 100 KHz	.044	.041
Dielectric strength at Volts / mil (B.S. 2782)	2100	2200
Surface energy, dyn / cm (ASTM 2578-67)	47 - 52	44 - 47

Paramount Tube
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Note: This material property information is the best currently available on the subject. The data should be viewed as a general guide to tube and material properties, not a performance guarantee. The customer should examine the suitability of the finished product for individual applications.

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