



E-FILM™ - STRETCHABLE FILMS FOR FLEXIBLE ELECTRONICS

Delphon manufactures stretchable films for a wide variety of existing and emerging applications in the medical and electronics industries. Our tight process control and ability to customize make Delphon's E-Film products ideal for printed, wearable and flexible hybrid electronic applications.

Part Number	GP-TPU-12-92450/4	GP-TPU-13-92450/4	GP-TPU-13-78500/2
Key Features	Textured Suitable for high temp and ink adhesion high Stretch	Smooth Suitable for high temp and ink adhesion	Smooth Low hysteresis Excellent clarity
Composition	Polyurethane Aromatic Ester	Polyurethane Aromatic Ester	Polyurethane Aromatic Ester
Appearance**	Transparent	Transparent	Transparent
Polymer Thickness*	4 mils	4 mils	2 mils
Coversheet*	3 mils PET	3 mils PET	3 mils PET
Substrate*	3 mils PET	3 mils PET	5 mils PET
Total Film Thickness*	10 mils	10 mils	10 mils
Hardness (Shore A)	92	92	78
Specific Gravity	1.22	1.22	1.19
Tensile Strength	62.1 MPa	62 MPa	36 MPa
Ultimate Elongation	450%	450%	500%
100% Modulus	9.7 MPa	9.7 MPa	2 MPa
300% Modulus	29 MPa	29 MPa	5.5 MPa
Hysteresis	4%	4%	2%

* Properties can be modified per customer specification.

** Custom colors available