



EMBOSSED CARRIER TAPES

# Type U, G, N and Q Polycarbonate Carrier Tape



Advantek Polycarbonate material provides superior performance, especially in small to micro-form factors requiring very sharp pocket features. ESD-safe polycarbonate maintains its flexibility, stability and strength through time and temperature variations. Advantek Type U, G, N and Q carrier tapes are available for standard and clean room compatible applications.

- All Advantek carrier tape is manufactured in accordance with EIA standards to ensure compatibility with tape and reel equipment.
- Suitable for bare die applications.

### Shelf Life and Storage

We recommend that Advantek Polycarbonate carrier tapes be used within 5 years of the date of manufacture. Store this product in its original packaging in a climate-controlled environment where temperature ranges from 21°C +/- 17°C (70°F +/- 30°F). This product is not affected by humidity. Allow the product to stabilize at room temperature prior to use.

### Camber

The Advantek Polycarbonate carrier tape meets the EIA-481-D standard for camber that is not greater than 1mm in 250 linear millimeters. For 8mm to 24mm carrier tape in the level wind format, the camber will not be greater than 2mm in 250 linear millimeters.

Polycarbonate Carrier Tape Material Properties

	Type U	Type G	Type N	Type Q	Test Method
Standard Thickness	0.20mm	0.25mm	0.30mm	0.33mm	
Specific Gravity	1.27 g/cc	1.27 g/cc	1.27 g/cc	1.27 g/cc	ASTM D-792
Tear Strength	LD 0.38 lb TD 0.44 lb	LD 0.38 lb TD 0.44 lb	LD 0.38 lb TD 0.44 lb	LD 0.38 lb TD 0.44 lb	ASTM D-1938 [4]
Elongation	LD 10% TD 8%	LD 10% TD 8%	LD 10% TD 8%	LD 10% TD 8%	ASTM D-882 [5]
Tensile Strength	LD 3210 psi TD 2765 psi	LD 3210 psi TD 2765 psi	LD 3210 psi TD 2765 psi	LD 3210 psi TD 2765 psi	ASTM D-882 [5]
Vicat Softening	148°C (298°F)	148°C (298°F)	148°C (298°F)	148°C (298°F)	ASTM D-1525
Surface Resistivity	<10 <sup>12</sup> ≥ 10 <sup>4</sup> ohms/square	<10 <sup>12</sup> ≥ 10 <sup>4</sup> ohms/square	<10 <sup>12</sup> ≥ 10 <sup>4</sup> ohms/square	<10 <sup>12</sup> ≥ 10 <sup>4</sup> ohms/square	ASTM D-257

Note: The values presented for this product are typical laboratory data and may be changed without notice.

Material Ionics Data

Fluoride	ND
Chloride	0.0190
Nitrite	0.0040
Bromide	ND
Nitrate	0.0040
Phosphate	0.0040
Sulfate	0.0056
Lithium	0.0002
Sodium	0.0672
Ammonium	0.0048
Potassium	0.0074
Magnesium	0.0065
Calcium	0.0188

Note: The above ionics data was measured by an independent laboratory.

COVER TAPE COMPATIBILITY

MATERIAL	AA	AHP	ABX	ATA	PS3	APC	AHPC
U, G, N, & Q (Polycarbonate)				X		X	X



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Embossed Carrier Tapes	SFT®	Complex Designs	Basic Designs	Interleaf Tapes		
Cover Tapes	Heat Activated	Pressure Sensitive				
Packaging Reels	Pro	Ultra	Lite	Trimline		
Barrier Bags	DRYLOK®	STATLOK®				
Bands	PROBAND®	LOKBAND®				
Humidity Indicator Cards	1 Spot	3 Spot	4 Spot	6 Spot		
Desiccant	1/3 Unit	1/2 Unit	1 Unit	2 Unit	4 Unit	8 Unit
Dicing Tapes	UV Cured	Non UV Cured				

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