



C101 DARTEK® Film

Performance Films
Data Sheet

Product Description

DARTEK® C101 is a cast nylon 6,6 film which can be printed, laminated, extrusion coated and thermoformed.

Typical Applications

C101 is used as a barrier layer in industrial laminations, a carrier web for adhesives and coatings, and a release film in molding and for vacuum bagging applications.

Key Features

- Melt point of 510°F (265°C). Not suitable for prolonged high temperature applications. For high temperature use the C917 heat stabilized DARTEK®.
- Barrier to gases, grease, oils and chemicals. For a protective layer in composite structures.
- Formability. For cold conformability in pouching applications and hot thermoformability in vacuum forming.
- Clarity. Low haze and excellent optical properties
- Release. Removes easily in curing application.
- Thin gauge. For improved cost-effectiveness and reduced waste.
- Toughness. For high integrity in wrapping and handling.
- Smooth uniform surface. For smooth finished product surfaces.

Availability

Film is available in roll form in widths up to 88 inches (2235 mm). DARTEK® is normally treated both sides for ink, adhesive and coating receptivity.

Please note: Additional gauges may also be available. Please speak with one of our Customer Service Representatives or your Account Manager for further information.

Typical Gauges & Yields

μ	m ² /kg	mils	in ² /lb
25	34.78	0.98	24,506
76	14.30	2.99	10,076
102	10.66	4.02	7,508
127	8.56	5.00	6,030

Standard Put-Ups

Metric						
Diameter		Approximate Length per Roll in Meters - Gauge in Microns				
I.D. (mm)	O.D. (mm)	kg/mm of width	25	76	102	127
152	550	0.25	8,781	2,888	2,152	1,729

Imperial						
Diameter		Approximate Length per Roll in Feet - Gauge in Mils				
I.D. (in)	O.D. (in)	lbs/in of width	0.98	2.99	4.02	5.00
6	21.5	14.11	28,368	9,332	6,953	5,584

Complies with FDA regulation 21 CFR 177.1520(c) 3.1b, which allows for its use in direct food contact applications.

The data listed here fall within the normal range of products properties and is believed to accurate and reliable. However, they should not be used to establish specification limits nor used alone as the basis of design. This information is offered solely for your consideration, investigation and verification and is not to be construed as a warranty for which we assume legal responsibility. It is the customer's responsibility to be guided by his own tests and methods to ensure the quality of his product.

Typical Values

Property	Test Method	Imperial		Metric	
		Data Point	Units	Data Point	Units
Tensile Strength - MD	ASTM D-882	14500	psi	1019	kg/cm ²
Tensile Strength - TD	ASTM D-882	13500	psi	949	kg/cm ²
Elongation - MD	ASTM D-882	335	%	335	%
Elongation - TD	ASTM D-882	360	%	360	%
Tensile Modulus - MD	ASTM D-882	95000	psi	6679	kg/cm ²
Tensile Modulus - TD	ASTM D-882	100000	psi	7031	kg/cm ²
Tear Strength - MD (Graves - Initial)	ASTM D-1004	500	g/mil	19.7	g/μm
Tear Strength - TD (Graves - Initial)	ASTM D-1004	500	g/mil	19.7	g/μm
Tear Strength - MD (Elmendorf - Propagated)	ASTM D-1922	65	g/mil	2.6	g/μm
Tear Strength - TD (Elmendorf - Propagated)	ASTM D-1922	80	g/mil	3.1	g/μm

For more information on packaging films please contact:

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Hoffman Estates, IL 60169
Customer Service: 1-866-750-0228
Fax: 905-666-7070

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