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Data Sheet
Dartek® Nylon Film

C-917 NA High Performance Industrial Film

DARTEK® C-917 is a cast film made from nylon 6,6 and modified with a heat stabilizing additive for use as a carrier, barrier and release film in extreme prolonged high temperature applications

Typical Applications

- **DARTEK® C-917** can be thermoformed, printed, laminated, or extrusion coated, making it suitable for a wide range of high temperature industrial applications.

Key Features of C-917

- ☑ Heat stabilized with melt point of 510°F. For stability in high temperature applications where the film is exposed to elevated temperatures over prolonged time periods.
- ☑ Barrier to gases, greases, oils and chemicals. For protective layer in composite structures.
- ☑ **Formability** - For cold conformability in bagging applications and hot thermoformability in vacuum forming.
- ☑ **Clarity** - For optimum visibility of contained products through film.
- ☑ **Release** - For ease of removal.
- ☑ **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

Can be supplied in widths from 254mm to 2235mm (10 to 88 inches) in the gauges shown below,. **DARTEK®** C-917 can be treated both sides for ink, adhesive and coating receptivity. (PA Type).

Yields and Unit Weights (ASTM D-374)

µ	mils	m²/kg	gm/m²	in²/lb
15	0.60	58.3	17.1	41,000
19	0.75	46.7	21.4	32,800
25	1.00	35.0	28.6	24,700
32	1.25	28.0	35.7	19,700
38	1.50	23.3	42.9	16,400
51	2.00	17.5	57.2	12,300
64	2.50	14.0	71.1	9,840
76	3.00	11.7	85.7	8,200
102	4.00	8.75	114	6,150

Standard Put-ups

Metric

Diameter I.D.	Diameter O.D.	kg/cm of width	Approximate Length Per Roll in Meters Gauge in Microns								
			15µ	19µ	25µ	32µ	38µ	51µ	64µ	76µ	102µ
152mm	457mm	1.59	9260	7410	5560	4440	3700	2780	2220	1850	1390
152mm	546mm	2.38	13850	11080	8310	6650	5540	4160	3330	2770	2080

Imperial

Diameter		lb/in of width	Approximate Length Per Roll in Feet Gauge in Mils								
I.D.	O.D.		0.60	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00
6”	18”	8.9	30350	24300	18200	14600	12150	9100	7300	6050	4550
6”	21.5”	13.3	45450	36350	27250	21800	18200	13650	10900	9100	6800

DARTEK® C-917 Typical Values

Property	Test Method	Units	Gauge 25µ/1.00 mil
Specific Gravity	ASTM D-792	g/cc	1.13
Haze	ASTM D-1003-61	%	
Gloss (20° Gardner)	ASTM D-2457	Photocell Microamps	150
Tensile Strength	ASTM D-882-64T	lb/in²	MD 9000
			TD 9000
		kg/cm²	MD 663
			TD 663
Elongation	ASTM D-882-64T	%	MD 300
			TD 300
Tensile Modulus	ASTM D-882-64T	lb/in²	MD 100000
			TD 100000
		kg/cm²	MD 7030
			TD 7030
Tear Strength (Graves-Initial)	ASTM D-1004	g/mil	MD 600
			TD 600
		g/µ	MD 24
			TD 24
Tear Strength (Elmendorf-Propagated)	ASTM D-1922-67	g/mil	MD 35
			TD 30
		g/µ	MD 1.4
			TD 1.2
Dimensional Stability	30 min., 300°F	% shrink	MD 1.5
			TD 0.5
Impact Strength	ASTM D-1709-62T	g	600
Coefficient of Friction	ASTM D-1894-63 (film to film)		Static 0.60
			Kinetic 0.45
Moisture Permeability	ASTM E-398-70 Honeywell MVTR Tester 90%RH 23°C	g/100 in²/24 hr.	19
		g/m²/24 hr	295
Oxygen Permeability	ASTM D-1434-66 0% RH 23°C	cm^3/100 in²/24 hr.	3.5
		cm^3/m^3/24 hr.	54.3

Note: The values are typical for **DARTEK®** C-917 nylon film, and are not intended for use as limiting specifications. For additional information, please contact your Liqui-Box Representative.

Moisture Sensitivity: **DARTEK®** nylon 6,6 film is a hydrophilic (moisture sensitive) material. It is preconditioned at the time of manufacture and shipped in a moisture-proof wrapping film to prevent changes in moisture content prior to use. To ensure optimum stability and performance, do not unwrap **DARTEK®** until it is to be used, and re-wrap it in the same film for extended storage. The information contained in this bulletin is reliable to the best of our knowledge. But because we cannot control the conditions under which it may be used, DuPont Liquid Packaging Systems cannot guarantee it or accept any obligation or liability arising form its use.

Selection of laminating adhesives for use with PVDC coated Dartek® films.

Experience has shown that on occasion and under certain conditions, solventless adhesive systems containing neopentyl glycol (NPG) when used to laminate PVDC coated Dartek® to other films, may result in an objectionable odor in the laminated film. Because of this experience, we are recommending both solvent-based and solventless laminating adhesives for use with PVDC coated Nylon be free of NPG. Your adhesive supplier should be able to recommend a NPG-FREE adhesive formulation.

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The data listed here falls within the normal range of product properties but they should not be used to establish specification limits nor used alone as the basis of design Liqui-Box Canada assumes no obligation or liability for any advice furnished by it or for results obtained with respect to these products. All such advice is provided gratis and Buyer assumes sole responsibility for results obtained in reliance thereon.