



DARTEK®C-917 TECHNICAL DATA SHEET

nylon film

C-917 NA

For High Performance Industrial Uses

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 in curing applications
- **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.

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.

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	m ² /kg	gm/m ²	in ² /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		kg/cm of width	Approximate Length Per Roll in Meters								
I.D.	O.D.		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

Standard Roll Sizes (Imperial)

Diameter		lb/in of width	Approximate Length Per Roll in Feet								
I.D.	O.D.		Gauge in Mils								
			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



Property	Test Method	Units	Gauge 25 μ /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/in ² kg/cm ²	MD	9000
			TD	9000
			MD	663
			TD	663
Elongation	ASTM D-882-64T	%	MD	300
			TD	300
Tensile Modulus	ASTM D-882-64T	lb/in ² kg/cm ²	MD	100000
			TD	100000
			MD	7030
			TD	7030
Tear Strength (Graves-Initial)	ASTM D-1004	g/mil g/ μ	MD	600
			TD	600
			MD	24
			TD	24
Tear Strength (Elmendorf-Propagated)	ASTM D-1922-67	g/mil g/ μ	MD	35
			TD	30
			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 in ² /24 hr. g/m ² /24 hr		19
				295
Oxygen Permeability	ASTM D-1434-66 0% RH 23°C	cm ³ /100 in ² /24 hr. cm ³ /m ² /24 hr.		3.5
				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 Northern Fiber Glass Sales.



NorthernTM
FIBER GLASS SALES

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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 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, we cannot guarantee it or accept any obligation or liability arising from its use.