

## Infusions® Light Transmission Rates per ASTM D1003-00 using HunterLab ColorQuest® XE Spectrophotometer

### Summary

The table below is based on in-house laboratory test results. Tests were conducted in 2008 in accordance with the procedure described in ASTM D1003-00 "Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics."

The instrument used was a HunterLab ColorQuest® XE Spectrophotometer.

The HunterLab XE has a light path where the light strikes the transparent medium and then a sphere on the other side of the sample in a 180-degree

sweep. A 17mm diameter area of the sample is measured to provide an average for the reading of the signal. Measurements are taken in the TTRAN (Total Transmission Mode). Any scattered light transmission is collected by the sphere on the opposite side of the sample.

Samples were prepared to at least 3" x 3" size (large enough for the Spectrophotometer to read a 17mm diameter area).

Armstrong Name	Gauge in inches	L*	a*	b*	Haze	Y Total % Light Transmission
Beads Large Kiwi	0.44"	83.91	-4.08	5.68	80.45	63.89
Beads Large Lagoon	0.44"	61.34	-15.75	-34.25	80.31	29.63
Beads Large Plum	0.44"	60.36	19.19	-10.74	76.74	28.52
Beads Large Reef	0.44"	78.27	-12.47	-7.73	81.85	53.66
Beads Large Tangerine	0.44"	68.31	35.36	40.14	77.39	38.40
Beads Small Kiwi	0.44"	82.75	-4.10	5.80	86.22	61.69
Beads Small Lagoon	0.44"	59.95	-15.33	-32.72	84.91	28.06
Beads Small Plum	0.44"	58.90	18.10	-9.96	85.27	26.92
Beads Small Reef	0.44"	75.57	-12.33	-7.47	86.46	49.19
Beads Small Tangerine	0.44"	67.17	33.57	37.93	84.95	36.85
Blue Arbor	1/4" (.25)	68.15	-2.56	3.37	84.16	38.18
Blue Linen	1/4" (.25)	79.11	-2.61	-0.23	77	55.1
Blue Linen	1/8" (.125)	81.88	-1.63	0.83	78.09	60.08
Blueberry Bliss	1/4" (.25)	27.06	-7.40	-19.56	97.23	5.11
Blueberry Bliss	1/8" (.125)	40.72	-7.2	-19.53	96.2	11.7
Budding Creativity	1/4" (.25)	45.09	-7.08	53.41	98.47	14.61
Budding Creativity	1/8" (.125)	42.29	-5.66	52.95	99	12.7
Calm Water	1/4" (.25)	92.13	-0.16	1.12	74.41	80.99
Calm Water	1/8" (.125)	95.33	0.11	-1.23	65.4	88.4
Caribbean Renewal	1/4" (.25)	91.91	-0.31	2.24	73.92	80.49
Caribbean Renewal	1/8" (.125)	94.65	-2.06	-0.58	76.1	86.8
Chalk Folio	1/4" (.25)	91.42	0.31	-0.41	76.5	79.4
Chalk Folio	1/8" (.125)	91.69	0.56	1.53	76.13	80.01
Channeled Caribbean	1/4" (.25)	91.36	-3.39	1.62	41.16	79.26
Channeled Caribbean	5/8" (.625)	90.44	-4.25	1.93	50.66	77.26

NOTE: Due to ink print pattern on Graphix Branches, Dots, and Stripes, light transmission value over entire 2' x 5' or 2' x 6' panel will be an average of the light transmission in printed area vs. light transmission value in clear area (non-printed) of the panel.

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Armstrong Name	Gauge in inches	L*	a*	b*	Haze	Y Total % Light Transmission
Channeled Fire	1/4" (.25)	59.16	58.76	37.43	59.44	27.20
Channeled Fire	5/8" (.625)	58.22	58.55	37.19	58.15	26.20
Channeled Intellect	1/4" (.25)	91.58	0.01	1.16	32.06	79.76
Channeled Midnight	1/4" (.25)	76.94	-3.39	-18.80	34.44	51.44
Channeled Midnight	5/8" (.625)	78.76	-3.44	-16.67	49.35	54.52
Channeled Mist	1/4" (.25)	82.65	0.60	3.75	66.75	61.52
Channeled Mist	5/8" (.625)	88.61	0.67	1.99	83.99	73.35
Channeled Sunset	1/4" (.25)	76.32	19.04	53.44	38.56	50.42
Channeled Sunset	5/8" (.625)	81.05	14.92	52.41	46.60	58.56
Channeled Vision	1/4" (.25)	70.19	1.39	9.33	22.53	41.02
Cinnamon Sanity	1/4" (.25)	15.43	13.27	20.49	97.88	1.99
Cinnamon Sanity	1/8" (.125)	14.48	15.38	19.16	98.4	1.8
Clear Arbor	1/4" (.25)	88.97	0.31	1.62	75.60	74.11
Clear Arbor	1/8" (.125)	90.98	0.17	-0.14	71.1	78.4
Crushed Copper	1/4" (.25)	78.15	0.79	0.20	62.74	53.46
Crushed Copper	1/8" (.125)	58.51	1.59	3.86	75.2	26.5
Crystalline Focus	1/4" (.25)	58.34	0.28	3.30	96.65	27.40
Crystalline Focus	1/8" (.125)	67.17	0.04	0.84	96.9	36.9
Crystalline Silverado	1/4" (.25)	64.57	0.08	0.16	56.17	33.50
Crystalline Silverado	1/8" (.125)	69.4	0.02	-0.54	61.1	39.9
Crystalline Sky	1/4" (.25)	57.75	-0.31	0.18	86.94	25.52
Crystalline Sky	1/8" (.125)	60.86	-1.32	-1.79	61.3	29.1
Cultured Pearl	1/4" (.25)	49.28	0.54	1.43	98.82	17.82
Graphix Branches Bisque/Muslin	1/4" (.25)	22.70	9.65	12.33	81.63	3.71
Graphix Branches Black/White	1/4" (.25)	22.70	9.65	12.33	81.63	3.71
Graphix Branches Cinnamon/Latte	1/4" (.25)	22.70	9.65	12.33	81.63	3.71
Graphix Branches Latte/Cinnamon	1/4" (.25)	47.93	6.32	6.53	71.49	16.74
Graphix Branches Muslin/Bisque	1/4" (.25)	47.93	6.32	6.53	71.49	16.74
Graphix Branches White/Black	1/4" (.25)	47.93	6.32	6.53	71.49	16.74
Graphix Dots Blueberry/Cinnamon	1/4" (.25)	14.12	-6.52	-26.61	99.01	1.75
Graphix Dots Budding/Teal	1/4" (.25)	33.74	-4.94	39.49	98.7	7.9
Graphix Dots Cinnamon/Blueberry	1/4" (.25)	38.69	16.68	31.00	95.46	10.48
Graphix Dots Grape/Red	1/4" (.25)	11.75	13.06	-11.83	98.8	1.4
Graphix Dots Red/Grape	1/4" (.25)	1.5	7.26	1.37	94.5	0.2
Graphix Dots Teal/Budding	1/4" (.25)	57.96	-5.16	58.34	98.5	25.9
Graphix Oars Black/Latte	1/4" (.25)	54.81	1.25	3.27	67.38	22.75
Graphix Oars Blue/Sage	1/4" (.25)	51.08	-0.12	6.54	72.9	19.3
Graphix Oars Cinnamon/Sedona	1/4" (.25)	51.08	-0.12	6.54	72.9	19.3
Graphix Oars Latte/Black	1/4" (.25)	58.15	3.24	7.63	71.41	26.12
Graphix Oars Sage/Blue	1/4" (.25)	56.14	-0.75	13.37	79.6	24.1

NOTE: Due to ink print pattern on Graphix Branches, Dots, and Stripes, light transmission value over entire 2' x 5' or 2' x 6' panel will be an average of the light transmission in printed area vs. light transmission value in clear area (non-printed) of the panel.

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Armstrong Name	Gauge in inches	L*	a*	b*	Haze	Y Total % Light Transmission
Graphix Oars Sedona/Cinnamon	1/4" (.25)	56.14	-0.75	13.37	79.6	24.1
Graphix Ovals Cinnamon/Sterling	1/4" (.25)	68.22	0.23	-0.21	65.58	38.27
Graphix Ovals Fog/Steel	1/4" (.25)	68.22	0.23	-0.21	65.58	38.27
Graphix Ovals Grape/Teal	1/4" (.25)	68.22	0.23	-0.21	65.58	38.27
Graphix Ovals Steel/Fog	1/4" (.25)	59.92	0.02	0.07	66.23	28.03
Graphix Ovals Sterling/Cinnamon	1/4" (.25)	59.92	0.02	0.07	66.23	28.03
Graphix Ovals Teal/Grape	1/4" (.25)	59.92	0.02	0.07	66.23	28.03
Graphix Stripes Berry/Smoke	1/4" (.25)	51.08	-0.12	6.54	72.9	19.3
Graphix Stripes Latte/Teal	1/4" (.25)	56.83	4.79	10.79	74.24	24.75
Graphix Stripes Saffron/Sedona	1/4" (.25)	51.08	-0.12	6.54	72.9	19.3
Graphix Stripes Sedona/Saffron	1/4" (.25)	56.14	-0.75	13.37	79.6	24.1
Graphix Stripes Smoke/Berry	1/4" (.25)	56.14	-0.75	13.37	79.6	24.1
Graphix Stripes Teal/Latte	1/4" (.25)	19.03	-25.91	-7.98	98.64	2.75
Honey Canvas	1/4" (.25)	68.99	0.12	9.90	71.81	39.33
Honey Canvas	1/8" (.125)	77.99	-0.36	9.1	81.1	53.2
Indigo Surf	1/4" (.25)	76.28	-2.66	-3.22	62.15	50.35
Indigo Surf	1/8" (.125)	81.22	-1.47	-4.41	72.7	58.9
Inspiration Ice	1/4" (.25)	68.69	1.01	1.70	88.75	38.92
Linen Gold	1/4" (.25)	70.76	5.56	13.67	66.74	41.83
Linen Gold	1/8" (.125)	73.41	5.01	13.45	79.8	45.8
Loyalty Latte	1/4" (.25)	73.71	-0.50	8.95	82.98	46.25
Loyalty Latte	1/8" (.125)	77.78	-0.26	11.41	86	52.8
Natural Faith	1/4" (.25)	50.49	1.72	10.39	98.57	18.83
Natural Faith	1/8" (.125)	54.28	0.94	11.16	97	22.2
Natural Linen	1/4" (.25)	80.66	0.1	4.06	84.4	57.9
Natural Linen	1/8" (.125)	79.96	0.17	4.55	82.03	56.60
Orange Arbor	1/4" (.25)	83.49	2.05	1.14	60.63	63.09
Orange Arbor	1/8" (.125)	85.66	3.55	2.12	68	67.3
Peace Blue	1/4" (.25)	50.60	-4.81	-2.77	97.19	18.93
Peace Blue	1/8" (.125)	39.64	-9.56	-6.96	98.90	11.04
Perforated Alloy	1/8" (.125)	NA	NA	NA	NA	NA
Red Arbor	1/4" (.25)	21.45	43.53	31.33	97.61	3.36
Red Fire	1/4" (.25)	26.05	47.21	33.64	96.67	4.76
Red Fire	1/8" (.125)	18.72	45.19	30.48	95.8	2.7
Refined Black	1/4" (.25)	56.57	1.58	4.52	60.29	24.48
Refined Black	1/8" (.125)	55.93	1.71	4.78	65.1	23.8
Refined Cranberry	1/4" (.25)	7.01	21.63	10.50	89.15	0.78
Refined Cranberry	1/8" (.125)	19.79	26.04	22.24	94.4	2.9
Refined Kiwi	1/4" (.25)	86.50	-12.24	10.69	54.10	69.00
Refined Kiwi	1/8" (.125)	93.16	-3.58	2.81	56.1	83.3

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Refined Lagoon	1/4" (.25)	66.57	-16.80	-35.80	54.73	36.06
Refined Lagoon	1/8" (.125)	68.34	-16.53	-38.42	57.3	38.4
Refined Plum	1/4" (.25)	62.77	20.74	-13.41	58.12	31.31
Refined Plum	1/8" (.125)	66.41	21.08	-13.9	58.8	35.9
Refined Reef	1/4" (.25)	84.30	-13.01	-9.67	53.36	64.64
Refined Reef	1/8" (.125)	89.27	-10.81	-8.66	55.5	74.7
Refined Tangerine	1/4" (.25)	70.77	36.74	41.13	54.60	41.86
Refined Tangerine	1/8" (.125)	74.68	36.6	40.95	54.5	47.8
Saffron Energy	1/4" (.25)	59.20	6.95	53.59	93.02	27.24
Saffron Energy	1/8" (.125)	51.01	15.49	62.91	97.2	19.3
Sage Happiness	1/4" (.25)	58.32	-6.55	28.48	96.81	27.38
Sage Happiness	1/8" (.125)	53.86	-6.71	30.39	98.5	21.8
Sedona Spirit	1/4" (.25)	17.04	31.17	27.46	98.44	2.31
Sedona Spirit	1/8" (.125)	23.94	37.43	36.93	97.9	4.1
Silver Orbit	1/4" (.25)	95.29	0.1	-1.2	65.4	88.3
Silver Orbit	1/8" (.125)	84.47	0.84	0.78	72.86	64.97
Simplicity Alloy	1/8" (.125)	NA	NA	NA	NA	NA
Splash Kiwi	0.44	82.38	-4.16	6.02	84.14	61.00
Splash Lagoon	0.44	59.75	-15.26	-33.54	83.59	27.84
Splash Plum	0.44	57.80	20.37	-11.26	85.32	25.75
Splash Reef	0.44	77.94	-12.65	-7.78	81.99	53.11
Splash Tangerine	0.44	69.49	33.55	37.85	69.22	40.02
Spun Copper	1/4" (.25)	78.69	1.27	0.96	46.64	54.39
Spun Copper	1/8" (.125)	84.12	0.99	-0.17	69	64.3
Tranquility Teal	1/4" (.25)	40.15	-17.92	-12.33	95.24	11.34
Tranquility Teal	1/8" (.125)	52.48	-21.77	-18.03	93.6	20.6
White Circlets	1/4" (.25)	95.27	0.12	-1.19	65.5	88.2
White Circlets	1/8" (.125)	80.30	1.37	1.90	78.64	57.21

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