

TECHNICAL BULLETIN 3.23

Luminous and Solar Characteristics of Avery Dennison Translucent Series

Issued n° 1: 10/2024

The present technical bulletin gives the light transmittance, reflectance and UV characteristics of the Avery Dennison Signage Translucent Series.

These data have been collected on the film+adhesive according to EN410:2011.

These data are gathered in the tables below by series; 4500 TF, 5500 QM, 5600 LD and Window Decoration.

4500 TF Colors	% Energetic Reflexion	% Luminus Reflexion	% Energetic Transmission	% Luminus Transmission	% Luminus Absorption	% Energetic Absorption	% U.V. Blocked	% U.V. Transmission
4543 TF PUMPKIN ORANGE	44.3%	32.9%	22.9%	7.8%	59.3%	32.8%	99.7%	0.3%
4542 TF YELLOW ORANGE	36.0%	31.3%	33.2%	21.0%	47.7%	30.8%	99.8%	0.2%
4500 TF Blue	7.4%	5.5%	16.1%	1.5%	93.0%	76.5%	100.0%	0.0%
4516 TF Green	6.0%	5.8%	33.5%	30.5%	63.7%	60.5%	100.0%	0.0%
4512 TF Blue	14.1%	9.0%	43.4%	18.6%	72.4%	42.5%	99.7%	0.3%
4502 TF Yellow	29.0%	40.8%	46.7%	41.2%	18.0%	24.3%	100.0%	0.0%
4506 TF Red	26.4%	14.7%	33.4%	3.8%	81.5%	40.2%	99.8%	0.2%
4500 TF White	52.4%	64.7%	34.6%	28.7%	6.6%	13.0%	100.0%	0.0%
4501 TF Black	4.8%	4.9%	0.6%	0.0%	95.1%	94.6%	100.0%	0.0%
4504 TF Chrome Yellow	32.1%	40.0%	40.8%	29.3%	30.7%	27.1%	100.0%	0.0%
4507 TF Light Green	20.5%	30.3%	41.2%	32.8%	36.9%	38.3%	100.0%	0.0%
4511 TF Pink	12.0%	7.4%	59.5%	18.0%	74.6%	28.5%	91.8%	8.2%
4513 TF Violet	8.5%	5.5%	57.2%	9.7%	84.8%	34.3%	91.9%	8.1%
4514 TF Brown	16.3%	8.0%	36.6%	4.9%	87.1%	47.1%	100.0%	0.0%
4517 TF Dark Blue	7.0%	4.8%	40.4%	4.6%	90.6%	52.6%	97.6%	2.4%
4520 TF Wine Red	11.9%	7.5%	29.8%	2.3%	90.2%	58.3%	99.8%	0.2%
4509 TF Cardinal Red	24.4%	12.2%	37.9%	4.4%	83.4%	37.7%	99.0%	1.0%
4518 TF Sapphire Blue	13.7%	6.4%	31.8%	2.2%	91.4%	54.5%	100.0%	0.0%
4519 TF Grey*								
4508 TF Pepper Red	16.9%	14.0%	46.5%	9.9%	76.1%	36.6%	97.9%	2.1%
4503 TF Lemon Yellow	30.1%	43.7%	38.2%	33.3%	23.0%	31.7%	100.0%	0.0%

* no data available

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4500 TF Colors	% Energetic Reflexion	% Luminus Reflexion	% Energetic Transmission	% Luminus Transmission	% Luminus Absorption	% Energetic Absorption	% U.V. Blocked	% U.V. Transmission
4533 TF Meadow Green	13.8%	15.7%	17.0%	4.9%	79.4%	69.2%	100.0%	0.0%
4532 TF Forest Green	7.1%	7.4%	11.5%	3.0%	89.6%	81.4%	100.0%	0.0%
4531 TF Aqua	20.1%	19.1%	34.2%	16.8%	64.1%	45.7%	99.7%	0.3%
4534 TF Pacific Green	11.3%	11.6%	15.2%	3.9%	84.5%	73.5%	100.0%	0.0%
4536 TF Medium Grey	16.0%	19.6%	19.3%	12.8%	67.6%	64.7%	99.0%	1.0%
4539 TF Turquoise	15.0%	15.1%	36.9%	23.1%	61.8%	48.1%	99.5%	0.5%
4522 TF Burgundy	8.8%	6.5%	36.2%	3.8%	89.7%	55.0%	99.9%	0.1%
4523 TF Light Blue	16.3%	8.4%	38.1%	7.2%	84.4%	45.6%	99.2%	0.8%
4527 TF Ocean Blue	23.1%	19.0%	39.8%	18.6%	62.4%	37.1%	98.6%	1.4%
4528 TF Reflex Blue	16.2%	8.3%	38.8%	7.7%	84.0%	45.0%	99.1%	0.9%
4525 TF Royal Blue	8.3%	5.1%	43.3%	4.3%	90.6%	48.4%	99.5%	0.5%
4529 TF Deep Blue	6.8%	4.6%	41.1%	1.6%	93.8%	52.1%	99.9%	0.1%
4538 TF Beige	40.6%	48.9%	35.4%	28.9%	22.2%	24.0%	99.8%	0.2%
4537 TF Chocolate	7.6%	7.1%	6.2%	0.8%	92.1%	86.2%	100.0%	0.0%
4535 TF Pigeon Grey*								
4540 TF Silver	54.6%	54.8%	8.6%	8.7%	36.5%	36.8%	98.2%	1.8%
4541 TF Gold	36.4%	37.1%	25.6%	26.6%	36.3%	38.0%	97.1%	2.9%
4544 TF SUNSET ORANGE	17.1%	16.6%	48.1%	19.0%	64.4%	34.8%	97.4%	2.6%

* no data available

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5500 QM Colors	% Energetic Reflexion	% Luminus Reflexion	% Energetic Transmission	% Luminus Transmission	% Luminus Absorption	% Energetic Absorption	% U.V. Blocked	% U.V. Transmission
5504-01 QM Yellow	29.7%	45.9%	45.7%	34.6%	19.5%	24.6%	100.0%	0.0%
5510-01 Golden Yellow	25.6%	36.7%	44.3%	28.6%	34.7%	30.1%	100.0%	0.0%
5513-01 Yellow Orange	35.9%	33.6%	32.1%	9.1%	57.3%	32.0%	100.0%	0.0%
5516-01 Deep Orange	31.1%	26.6%	36.6%	14.9%	58.5%	32.3%	100.0%	0.0%
5515-01 Tangerine Orange	28.7%	26.9%	39.4%	16.6%	56.5%	31.9%	100.0%	0.0%
5517-01 Sunset Orange	25.7%	18.5%	40.0%	14.5%	67.0%	34.3%	100.0%	0.0%
5507-01 Curry Yellow	38.8%	46.5%	32.4%	17.3%	36.2%	28.8%	100.0%	0.0%
5589 QM Dark Grey*								
5558 QM Forest Green	17.4%	14.7%	19.7%	3.6%	81.7%	62.9%	100.0%	0.0%
5500 QM White	59.8%	72.6%	32.9%	27.8%	0.0%	7.3%	100.0%	0.0%
5501 QM Black	4.8%	4.9%	0.3%	0.0%	95.1%	94.9%	100.0%	0.0%
5503 QM Sun Yellow	49.1%	61.9%	26.1%	16.1%	83.9%	99.7%	100.0%	0.0%
5505 QM Citrus Yellow	27.5%	40.7%	46.4%	33.7%	25.6%	26.1%	100.0%	0.0%
5506 QM Medium Red*								
5508 QM Kelly Green	12.6%	11.6%	26.4%	10.7%	77.7%	61.0%	100.0%	0.0%
5509 QM Sapphire Blue	16.8%	7.1%	25.2%	1.6%	91.3%	58.0%	100.0%	0.0%
5512 QM Gentian Blue	20.0%	10.2%	24.7%	2.8%	87.0%	55.3%	100.0%	0.0%
5514 QM Fire Orange	30.9%	30.9%	37.2%	14.8%	54.3%	31.9%	100.0%	0.0%
5518 QM Coral Red	27.4%	16.4%	36.4%	7.2%	76.4%	36.2%	100.0%	0.0%
5519 QM Apple Red	26.2%	14.3%	36.7%	6.4%	79.3%	37.1%	100.0%	0.0%
5520 QM Ruby Red	29.6%	15.4%	33.9%	5.1%	79.5%	36.5%	100.0%	0.0%
5521 QM Red	28.2%	13.0%	32.4%	4.4%	82.6%	39.4%	100.0%	0.0%
5522 QM Oriental Red	27.9%	11.4%	30.7%	2.8%	85.8%	41.4%	100.0%	0.0%
5523 QM Cherry Red*								
5524 QM Scarlet Red	22.7%	10.4%	36.1%	0.0%	89.6%	41.2%	99.9%	0.1%
5525 QM Fire Red	25.0%	11.0%	32.7%	2.8%	86.2%	42.3%	100.0%	0.0%
5526 QM Garnet Red	23.9%	9.7%	28.0%	1.1%	89.2%	48.1%	100.0%	0.0%

* no data available



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5500 QM Colors	% Energetic Reflexion	% Luminus Reflexion	% Energetic Transmission	% Luminus Transmission	% Luminus Absorption	% Energetic Absorption	% U.V. Blocked	% U.V. Transmission
5527 QM Strawberry Red*								
5528 QM Sharp Red	24.2%	15.2%	41.3%	11.1%	73.7%	34.5%	98.8%	1.2%
5530 QM Wine Red*								
5531 QM Tulip Pink	38.4%	27.1%	35.9%	10.9%	62.0%	25.7%	99.9%	0.1%
5532 QM Rose Pink*								
5533 QM Lavender	31.8%	14.4%	32.9%	4.3%	81.3%	35.3%	99.9%	0.1%
5534 QM Rosewine	13.3%	7.7%	47.4%	8.8%	83.5%	39.3%	98.6%	1.4%
5535 QM Berry Red*								
5536 QM Grape Purple	23.5%	8.4%	32.8%	1.9%	89.7%	43.7%	99.7%	0.3%
5539 QM New Blue*								
5541 QM Delft Blue	12.1%	5.2%	28.9%	1.8%	93.0%	59.0%	100.0%	0.0%
5543 QM Night Blue	7.0%	4.9%	44.6%	3.2%	91.9%	48.4%	99.3%	0.7%
5544 QM Rain Blue	9.8%	5.1%	32.2%	4.9%	90.0%	58.0%	100.0%	0.0%
5545 QM Steel Blue	15.3%	6.1%	24.3%	2.0%	91.9%	60.4%	100.0%	0.0%
5546 QM Shadow Blue	14.4%	6.0%	26.0%	2.0%	92.0%	59.6%	100.0%	0.0%
5547 QM Azure Blue	18.2%	7.9%	24.4%	1.6%	90.5%	57.4%	100.0%	0.0%
5548 QM Electric Blue	20.0%	10.0%	25.7%	3.1%	86.9%	54.3%	100.0%	0.0%
5549 QM Sailing Blue	18.5%	10.2%	31.6%	6.6%	83.2%	49.9%	100.0%	0.0%
5550 QM Island Blue	17.7%	10.5%	29.0%	5.6%	83.9%	53.3%	100.0%	0.0%
5551 QM Primrose Yellow	36.9%	50.3%	39.1%	30.2%	19.5%	24.0%	100.0%	0.0%
5552 QM Shocking Blue	23.9%	16.2%	34.0%	11.8%	72.0%	42.1%	100.0%	0.0%
5553 QM Mediterran. Blue	30.3%	20.2%	23.2%	3.4%	76.4%	46.5%	100.0%	0.0%
5555 QM Ocean Green	17.3%	13.6%	28.8%	10.6%	75.8%	53.9%	100.0%	0.0%
5557 QM Pistachio	25.3%	25.1%	18.9%	4.5%	70.4%	55.8%	100.0%	0.0%
5559 QM Bright Green*								
5560 QM Autumn Green	16.2%	17.0%	26.9%	10.9%	72.1%	56.9%	100.0%	0.0%

* no data available



Graphics
Solutions

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5500 QM Colors	% Energetic Reflexion	% Luminus Reflexion	% Energetic Transmission	% Luminus Transmission	% Luminus Absorption	% Energetic Absorption	% U.V. Blocked	% U.V. Transmission
5561 QM Summer Green	20.4%	25.9%	34.2%	24.0%	50.1%	45.4%	100.0%	0.0%
5562 QM Yellow Green	27.4%	34.6%	24.1%	10.8%	54.6%	48.5%	100.0%	0.0%
5563 QM Pine Green	9.4%	6.9%	26.8%	9.4%	83.7%	63.8%	100.0%	0.0%
5565 QM Lime Green	33.2%	45.8%	35.1%	26.8%	27.4%	31.7%	100.0%	0.0%
5567 QM Ice*								
5568 QM Beige Grey	24.3%	27.9%	20.1%	9.3%	62.8%	55.6%	99.9%	0.1%
5569 QM Mouse Grey	27.0%	30.2%	18.2%	8.1%	61.7%	54.8%	100.0%	0.0%
5570 QM Smoke Grey*								
5571 QM Ash Grey	14.1%	15.0%	13.4%	3.5%	81.5%	72.5%	100.0%	0.0%
5573 QM Beige*								
5574 QM Copper Brown	17.0%	15.0%	54.9%	35.5%	49.5%	28.1%	98.2%	1.8%
5578 QM Bark Brown	9.4%	8.3%	6.1%	0.1%	91.6%	84.5%	100.0%	0.0%
5579 QM Chocolate Brown	11.2%	6.2%	21.6%	0.9%	92.9%	67.2%	100.0%	0.0%
5581 QM Sky Blue	24.7%	16.5%	32.9%	9.1%	74.4%	42.4%	100.0%	0.0%
5590 QM Silver Metallic	58.3%	59.4%	9.1%	9.4%	31.2%	32.6%	100.0%	0.0%
5591 QM Gold Metallic	44.7%	40.3%	4.5%	3.0%	56.7%	50.8%	100.0%	0.0%
5528 QM Sharp Red	24.0%	14.5%	41.4%	10.8%	74.7%	34.6%	98.8%	1.2%
5301 Blockout	73.40%	88.50%	0.30%	0.00%	11.50%	26.30%	100.00%	0.00%

* no data available

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5600 LD Colors	% Energetic Reflexion	% Luminus Reflexion	% Energetic Transmission	% Luminus Transmission	% Luminus Absorption	% Energetic Absorption	% U.V. Blocked	% U.V. Transmission
5610 LD Golden Yellow	24.20%	35.80%	42.60%	32.40%	31.80%	33.20%	100.00%	0.00%
5616 LD Deep Orange	24.90%	23.90%	27.50%	12.30%	63.80%	47.60%	100.00%	0.00%
5647 LD Azure Blue	15.70%	7.60%	19.10%	1.60%	90.80%	65.20%	100.00%	0.00%
5650 LD Island Blue	16.60%	10.00%	21.50%	3.80%	86.20%	61.90%	100.00%	0.00%
5621 LD Red	24.70%	12.60%	21.90%	2.70%	84.70%	53.40%	100.00%	0.00%
5600 LD White	58.50%	73.20%	20.80%	17.00%	9.80%	20.70%	100.00%	0.00%

Window Decoration	% Energetic Reflexion	% Luminus Reflexion	% Energetic Transmission	% Luminus Transmission	% Luminus Absorption	% Energetic Absorption	% U.V. Blocked	% U.V. Transmission
Crystal Glass	23.60%	24.20%	69.30%	71.10%	4.70%	7.10%	32.70%	32.70%
Crystal Glass Easy Apply	23.80%	24.30%	68.30%	70.00%	5.70%	7.90%	66.00%	34.00%
Dusted Glass	11.20%	12.20%	87.20%	89.20%	-1.40%	1.60%	57.10%	42.90%
Dusted Glass Easy Apply	11.90%	12.90%	86.10%	87.90%	-0.80%	2.00%	58.40%	41.60%
Dusted Glass Easy Apply RS	11.00%	11.80%	87.20%	89.10%	-0.90%	1.80%	57.00%	43.00%
Etched Glass	26.30%	27.20%	60.40%	63.80%	9.00%	13.30%	93.00%	7.00%

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Graphics
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