

Technical Bulletin 5.2

Mactac Solar properties of MT Translucent series

The present Technical Bulletin provides detailed information on the solar properties of the Mactac Translucent Series. It includes the following product ranges:

- MACal 8400 series
- MACal 9700 PRO series
- Glass Decor series

OPTICAL PROPERTIES

Measurements performed according to EN 410 norm on the film + adhesive.

MACal 8400 Series

MACCrystal 8400 PRO	% Energetic Reflexion	% Luminus Reflexion	% Energetic Transmission	% Luminus Transmission	% Luminus Absorption	% Energetic Absorption	% U.V. Blocked	% U.V. Transmission
8407-01 Deep Yellow	8.0%	10.0%	68.6%	72.1%	17.9%	23.4%	97.4%	2.6%
8407-03 Orange	12.3%	17.5%	58.1%	33.9%	48.6%	29.6%	96.6%	3.4%
8457-02 Light Red	8.5%	7.6%	57.7%	19.0%	73.4%	33.8%	96.1%	3.9%
8457-01 Deep Red	9.6%	8.1%	55.0%	12.8%	79.1%	35.4%	98.3%	1.7%
8457-04 Fushia	8.6%	8.8%	66.1%	22.8%	68.4%	25.3%	77.9%	22.1%
8437-02 Light Blue	8.0%	6.1%	56.3%	34.9%	59.0%	35.7%	98.5%	1.5%
8437-03 Medium Blue	6.9%	5.5%	58.5%	20.0%	74.5%	34.6%	93.8%	6.2%
8437-04 Deep Blue	6.4%	4.9%	45.6%	7.8%	87.3%	48.0%	94.5%	5.5%
8447-05 Yellow Green	7.0%	7.3%	61.6%	64.1%	28.6%	31.4%	87.5%	12.5%
8487-02 Grey	5.7%	5.8%	34.1%	26.7%	67.5%	60.2%	91.7%	8.3%

MACal 9700 Series

Macal 9700 PRO	% Energetic Reflexion	% Luminus Reflexion	% Energetic Transmission	% Luminus Transmission	% Luminus Absorption	% Energetic Absorption	% U.V. Blocked	% U.V. Transmission
9728-00 PRO White	52.4%	64.7%	34.6%	28.7%	6.6%	13.0%	100.0%	0.0%
9708-07 PRO Yellow	29.0%	40.8%	46.7%	41.2%	18.0%	24.3%	100.0%	0.0%
9708-01 PRO Lemon Yellow	27.0%	39.1%	49.0%	44.3%	16.6%	24.0%	100.0%	0.0%
9722-00 PRO Light Stop	70.9%	84.6%	0.0%	0.0%	15.4%	29.1%	100.0%	0.0%
9708-08 PRO Mandarin*								
9702-06 PRO Orange	17.1%	16.6%	48.1%	19.0%	64.4%	34.8%	97.4%	2.6%
9758-04 PRO Poppy Red	17.5%	14.4%	44.5%	9.0%	76.6%	38.0%	98.2%	1.8%
9758-01 PRO Vivid Red*								
9758-14 PRO Paprika*								
9758-00 PRO Red	26.1%	14.5%	34.1%	4.0%	81.5%	39.8%	99.8%	0.2%
9758-06 PRO Tomato Red	23.1%	13.6%	37.1%	5.0%	81.4%	39.8%	99.7%	0.3%
9758-02 PRO Burgundy	8.6%	6.5%	37.5%	4.3%	89.2%	53.9%	99.8%	0.2%
9758-03 PRO Cyclamen	11.4%	7.2%	61.0%	18.5%	74.3%	27.6%	90.5%	9.5%
9738-02 PRO Night Blue	7.0%	4.9%	45.9%	4.2%	90.9%	47.1%	99.4%	0.6%
9738-03 PRO Ultramarine Blue	13.0%	6.2%	31.8%	2.3%	91.5%	55.2%	100.0%	0.0%
9738-08 PRO European Blue	9.7%	6.5%	18.9%	1.8%	91.7%	71.4%	100.0%	0.0%
9738-07 PRO Sultan Blue	15.1%	8.3%	25.9%	2.7%	89.0%	59.0%	99.9%	0.1%
9738-01 PRO Signal Blue	18.2%	9.2%	32.8%	5.4%	85.4%	49.0%	100.0%	0.0%
9738-06 PRO Sea Blue	19.6%	11.6%	30.0%	6.5%	81.9%	50.4%	100.0%	0.0%
9738-00 PRO Blue	14.7%	9.4%	42.2%	17.1%	73.5%	43.1%	99.8%	0.2%
9738-05 PRO Carribean Blue	26.8%	18.1%	31.1%	7.4%	74.5%	42.1%	99.8%	0.2%
9738-04 PRO Light Blue	21.0%	18.4%	33.1%	15.9%	65.7%	45.9%	99.3%	0.7%
9748-03 PRO Turquoise	20.7%	19.4%	34.3%	16.2%	64.4%	45.0%	99.7%	0.3%
9748-02 PRO Yellow Green	20.1%	30.0%	43.8%	37.0%	33.0%	36.1%	100.0%	0.0%
9748-00 PRO Green	14.3%	15.8%	16.1%	4.0%	80.2%	69.6%	100.0%	0.0%
9748-01 PRO Mint Green	6.1%	5.8%	32.8%	30.2%	64.0%	61.1%	100.0%	0.0%
9748-04 PRO Bottle Green	7.3%	7.5%	10.2%	1.8%	90.7%	82.5%	100.0%	0.0%
9768-00 PRO Silver	24.4%	12.2%	37.9%	4.4%	83.4%	37.7%	99.0%	1.0%
9778-00 PRO Gold	54.6%	54.8%	8.6%	8.7%	36.5%	36.8%	98.2%	1.8%
9788-01 PRO Grey	25.0%	30.4%	16.7%	9.4%	60.2%	58.3%	99.9%	0.1%
9788-00 PRO Black	4.5%	4.5%	0.0%	0.0%	95.5%	95.5%	100.0%	0.0%
9798-60 PRO Light Diffuser 60	35.1%	45.2%	58.7%	54.7%	0.1%	6.2%	96.5%	3.5%
9798-30 PRO Light Diffuser 30	48.3%	60.0%	45.4%	40.6%	-0.6%	6.3%	99.6%	0.4%
9722-00 PRO Light Stop	70.9%	84.6%	0.0%	0.0%	15.4%	29.1%	100.0%	0.0%

* no data available

MACal GLASS DECOR 700

MACal Glass Decor Series	% Energetic Reflexion	% Luminus Reflexion	% Energetic Transmission	% Luminus Transmission	% Luminus Absorption	% Energetic Absorption	% U.V. Blocked	% U.V. Transmission
738-00 Offshore Blue	23.8%	22.9%	48.7%	50.1%	27.0%	27.4%	83.6%	16.4%
748-00 Refreshing Mint	23.2%	23.7%	49.0%	54.0%	22.4%	27.9%	82.1%	17.9%
708-00 Sparkling Yellow	22.9%	24.0%	38.8%	43.5%	32.5%	38.3%	81.3%	18.8%
758-00 Romantic Rose	23.8%	23.7%	49.8%	52.9%	23.5%	26.4%	80.2%	19.8%
778-00 Luxurious Gold	24.8%	23.7%	50.3%	56.0%	20.2%	24.9%	87.1%	12.9%
798-01 Frosted Film	22.1%	22.9%	56.8%	62.6%	14.4%	21.1%	76.6%	23.4%
798-01 BF Frosted Film	23.1%	23.9%	69.2%	70.8%	5.3%	7.7%	68.0%	32.0%
798-02 Dusted Film	8.4%	9.5%	75.0%	82.2%	8.3%	16.6%	68.0%	32.0%
598-03 Frosted Film	23.2%	24.8%	66.2%	68.0%	7.2%	10.6%	88.5%	11.5%
598-03 BF Frosted Film	21.8%	22.2%	69.5%	72.7%	5.1%	8.7%	85.6%	14.4%

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