

# Window Film Specifications

Updated April 2017

NorthernTint.com

## Automotive Films

	Total Solar Transmittance	Total Solar Reflectance	Total Solar Absorbance	Visible Light Transmission	Visible Light Reflectance (Int)	Visible Light Reflectance (Ext)	Infra-Red Rejected	Winter Median U Value	Shading Coefficient	UV Rejected	Emissivity	Solar Heat Gain Coefficient	Total Solar Heat Rejected	Luminous Efficacy	Solar Heat Reduction	Glare Reduction	Double Pane Compatible?
Auto Charcoal Black 50%	60	7	33	50	6	6	11	1.14	0.8	>98	0.86	0.7	28	0.63	18	50	
Auto Charcoal Black 35%	67	7	26	35	6	6	11	1.12	0.78	>98	0.88	0.68	25	0.45	24	65	
Auto Charcoal Black 20%	63	7	30	20	5	5	12	1.12	0.72	>98	0.88	0.63	34	0.28	29	80	
Auto Charcoal Black 05%	58	6	36	5	4	4	13	1.15	0.71	>98	0.88	0.62	40	0.07	33	95	
Auto NR Charcoal Black 70%	70	9	21	72	6	7	12	1.13	0.87	>98	0.86	0.76	24	0.83	13	28	
Auto NR Charcoal Black 50%	59	6	35	50	6	6	11	1.14	0.8	>98	0.86	0.7	28	0.63	18	50	
Auto NR Charcoal Black 35%	57	6	37	35	6	6	12	1.12	0.78	>98	0.88	0.68	25	0.45	24	65	
Auto NR Charcoal Black 20%	49	6	45	20	5	5	12	1.12	0.72	>98	0.88	0.63	34	0.28	29	80	
Auto NR Charcoal Black 05%	49	6	45	5	4	4	13	1.15	0.71	>98	0.88	0.62	40	0.07	33	95	
Auto HP Charcoal Black 70%	70	9	21	72	6	7	12	1.13	0.87	>98	0.86	0.76	24	0.83	13	28	
Auto HP Charcoal Black 50%	59	6	35	50	6	6	11	1.14	0.8	>98	0.86	0.7	28	0.63	18	50	
Auto HP Charcoal Black 35%	55	18	27	35	15	15	35	1.15	0.47	>98	0.86	0.41	44	0.74	42	65	
Auto HP Charcoal Black 20%	50	17	33	20	16	16	40	1.07	0.43	>98	0.87	0.37	48	0.47	49	80	
Auto HP Charcoal Black 05%	42	18	40	5	17	17	38	1.12	0.44	>98	0.85	0.38	56	0.11	52	95	
NR True Black 70%	70	9	21	72	6	7	12	1.13	0.87	>98	0.86	0.76	24	0.83	13	28	
NR True Black 50%	59	6	35	50	6	7	11	1.14	0.8	>98	0.86	0.7	28	0.63	18	50	
NR True Black 35%	57	6	37	35	6	7	12	1.12	0.78	>98	0.88	0.68	25	0.45	24	65	
NR True Black 20%	49	6	45	20	5	6	14	1.12	0.72	>98	0.88	0.63	34	0.28	29	80	
NR True Black 05%	49	6	45	5	4	5	15	1.15	0.71	>98	0.88	0.62	40	0.07	33	95	
Auto NR Classic Black 1.0 70%	70	9	21	72	6	7	12	1.13	0.87	>98	0.86	0.76	24	0.83	13	28	
Auto NR Classic Black 1.0 50%	63	6	31	52	6	7	10	1.14	0.82	>98	0.86	0.71	28	0.63	18	48	
Auto NR Classic Black 1.0 40%	55	6	39	38	6	6	12	1.14	0.76	>98	0.86	0.66	34	0.5	24	62	
Auto NR Classic Black 1.0 30%	52	6	42	30	6	7	11	1.14	0.73	>98	0.86	0.64	37	0.41	27	70	
Auto NR Classic Black 1.0 20%	48	6	46	21	6	6	12	1.15	0.71	>98	0.86	0.62	39	0.3	29	79	
Auto NR Classic Black 1.0 05%	45	7	48	6	6	6	10	1.12	0.67	>98	0.85	0.58	40	0.09	33	94	
Auto NR Classic Black 1.2 50%	60	5	35	48	4	4	12	1.12	0.81	>98	0.89	0.7	30	0.59	19	52	
Auto NR Classic Black 1.2 40%	56	5	39	39	4	4	11	1.12	0.76	>98	0.89	0.66	33	0.51	24	61	
Auto NR Classic Black 1.2 30%	54	6	40	30	4	4	11	1.14	0.76	>98	0.89	0.66	35	0.39	24	70	
Auto NR Classic Black 1.2 20%	48	5	47	19	4	3	11	1.12	0.71	>98	0.89	0.62	39	0.27	29	81	
Auto NR Classic Black 1.2 05%	41	5	54	4	4	3	12	1.12	0.66	>98	0.89	0.57	43	0.06	34	96	
Auto HP Classic Black 1.5 50%	54	7	39	54	7	7	30	1.13	0.75	>98	0.87	0.65	36	0.72	25	46	
Auto HP Classic Black 1.5 45%	48	8	44	44	7	7	30	1.12	0.7	>98	0.85	0.61	39	0.63	30	56	
Auto HP Classic Black 1.5 40%	45	7	48	39	7	6	29	1.12	0.68	>98	0.85	0.59	41	0.57	32	61	
Auto HP Classic Black 1.5 30%	43	6	51	28	5	4	26	1.13	0.67	>98	0.88	0.58	42	0.42	33	72	
Auto HP Classic Black 1.5 20%	32	9	59	20	9	5	43	1.09	0.56	>98	0.79	0.49	51	0.36	44	80	
Auto HP Classic Black 1.5 10%	29	8	63	10	8	4	45	1.1	0.54	>98	0.81	0.47	53	0.19	46	90	
Auto HP Classic Black 1.5 05%	21	12	67	5	5	5	41	1.06	0.46	>98	0.73	0.4	61	0.11	54	95	
Auto Ceramic 70%	53	8	39	69	6	7	39	1.05	0.76	>98	0.83	0.66	35	0.91	18	31	
Auto Ceramic 50%	49	7	44	48	6	7	42	1.06	0.74	>98	0.83	0.64	37	0.65	22	52	
Auto Ceramic 35%	45	7	48	34	6	7	49	1.04	0.72	>98	0.85	0.63	55	0.47	35	66	
Auto Ceramic 20%	42	7	51	19	5	6	59	1.04	0.71	>98	0.85	0.62	64	0.27	39	81	
Auto Ceramic 05%	39	7	54	5	4	5	62	1.07	0.68	>98	0.85	0.59	67	0.07	41	95	
Auto Security 4 Mil 50%	63	6	31	49	7	7	12	1.14	0.82	>98	0.88	0.71	28	0.6	18	51	
Auto Security 4 Mil 35%	67	6	27	33	7	7	11	1.12	0.76	>98	0.89	0.66	25	0.43	24	67	
Auto Security 4 Mil 20%	63	6	31	19	7	7	12	1.12	0.71	>98	0.93	0.62	34	0.27	29	81	
Auto Security 4 Mil 05%	59	6	35	7	7	7	15	1.15	0.67	>98	0.92	0.58	40	0.1	33	93	

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## Residential Films, Commercial Films, & Decorative Films

	Total Solar Transmittance	Total Solar Reflectance	Total Solar Absorbance	Visible Light Transmission	Visible Light Reflectance (Int)	Visible Light Reflectance (Ext)	Infra-Red Rejected	Winter Median U Value	Shading Coefficient	UV Rejected	Emissivity	Solar Heat Gain Coefficient	Total Solar Heat Rejected	Luminous Efficacy	Solar Heat Reduction	Glare Reduction	Double Pane Compatible?
NR Glare Cut 70%	70	9	21	72	6	7	12	1.13	0.87	>98	0.86	0.76	24	0.83	13	28	Y
NR Glare Cut 50%	59	6	35	50	6	5	11	1.14	0.8	>98	0.86	0.7	28	0.63	18	50	Y
NR Glare Cut 35%	57	6	37	35	6	5	12	1.12	0.78	>98	0.88	0.68	25	0.45	24	65	Y
NR Glare Cut 20%	49	6	45	20	5	6	12	1.12	0.72	>98	0.88	0.63	34	0.28	29	80	N
NR Glare Cut 05%	49	6	45	5	4	5	13	1.15	0.71	>98	0.88	0.62	40	0.07	33	95	N
Residential Neutral 50%	34	27	39	50	15	15	12	1.15	0.51	>98	0.76	0.44	34	0.98	47	50	Y
Residential Neutral 35%	28	36	36	42	34	34	55	1.08	0.48	>98	0.75	0.42	53	0.88	54	58	Y
Residential Neutral 20%	22	36	42	20	35	35	52	1.04	0.43	>98	0.75	0.37	58	0.47	57	80	N
Reflective Silver 68	62	15	23	69	14	15	39	1.05	0.59	>98	0.83	0.51	34	1.17	40	31	Y
Reflective Silver 53	27	40	33	56	36	37	53	0.94	0.43	>98	0.73	0.37	59	0.13	48	44	Y
Reflective Silver 35	24	37	39	40	39	38	71	1.05	0.4	>98	0.69	0.35	65	1	51	60	Y
Reflective Silver 15	10	48	42	25	65	64	81	1.01	0.24	>98	0.62	0.21	72	1.04	74	75	Y
Reflective Silver/Grey 15	10	37	53	11	61	13	77	0.91	0.27	>98	0.6	0.23	77	0.41	75	89	N
Reflective Silver/Green 15	10	36	54	22	60	24	78	0.91	0.29	>98	0.6	0.25	76	0.76	73	78	N
Reflective Silver/Gold 15	16	33	51	15	64	52	73	0.91	0.29	>98	0.6	0.25	76	0.52	74	85	N
Reflective Silver/Bronze 15	10	38	52	13	60	19	80	0.91	0.27	>98	0.6	0.23	77	0.48	74	87	N
Reflective Silver/Blue 15	11	35	54	20	62	25	80	0.91	0.28	>98	0.6	0.24	78	0.71	73	80	N
Delta Dual Reflective 45%	42	9	49	42	8	10	48	1	0.66	>98	0.83	0.57	42	0.64	31	58	Y
Delta Dual Reflective 35%	35	12	52	34	9	13	51	0.98	0.59	>98	0.8	0.51	48	0.58	38	66	Y
Delta Dual Reflective 25%	22	26	52	12	15	30	60	0.94	0.43	>98	0.74	0.37	62	0.28	55	88	Y
Delta Dual Reflective 10%	14	39	47	10	13	37	54	0.92	0.27	>98	0.63	0.23	75	0.37	70	90	Y
Neutral Sputtered 60%	53	8	39	60	8	10	34	1.04	0.74	>98	0.86	0.64	35	0.81	22	40	Y
Neutral Sputtered 45%	39	11	50	45	12	14	45	1.04	0.62	>98	0.86	0.54	46	0.73	35	55	Y
Neutral Sputtered 35%	29	15	57	33	17	19	63	1.03	0.51	>98	0.83	0.44	55	0.65	47	67	Y
Neutral Sputtered 20%	16	22	62	18	28	30	78	1.02	0.39	>98	0.82	0.34	66	0.46	59	82	N
Copper Solar Bronze 50%	32	23	46	48	16	18	52	0.92	0.5	>98	0.65	0.44	56	0.96	48	52	Y
Copper Solar Bronze 35%	22	31	47	37	24	25	75	0.91	0.39	>98	0.62	0.34	66	0.95	59	63	Y
Copper Solar Bronze 20%	9	43	49	18	38	37	88	0.94	0.25	>98	0.67	0.22	78	0.72	74	82	Y
Pearl Ceramic 7643	44	16	40	76	8	8	43	0.99	0.7	>98	0.79	0.61	40	1.09	30	24	Y
Pearl Ceramic 6865	37	18	45	68	8	8	65	0.9	0.56	>98	0.66	0.49	52	1.21	44	32	Y
Pearl Ceramic 6777	32	21	47	67	9	9	77	0.92	0.52	>98	0.67	0.45	55	1.29	48	33	Y
Pearl Ceramic 5885	26	24	50	58	8	8	85	0.91	0.51	>98	0.61	0.44	57	1.14	50	42	Y
Specialty Blackout	0	41	59	0	3	13	99	1	0.18	>98	0.63	0.16	85	0	82	100	N
Specialty Whiteout	12	47	41	17	71	72	81	1.12	0.25	>98	0.85	0.22	88	0.68	73	83	Y
Specialty Matte White 2.0 Mil	61	9	30	68	9	10	29	1.09	0.81	>98	0.85	0.7	30	0.84	19	32	Y
Specialty Matte White 2.2 Mil	56	17	28	61	22	22	29	1	0.74	>98	0.84	0.64	35	0.82	22	39	Y
Specialty Matte Bronze	55	6	39	15	8	9	25	1.14	0.77	>98	0.86	0.67	69	0.19	23	85	Y
Specialty Matte Grey	55	7	38	36	9	7	28	1.14	0.78	>98	0.86	0.68	34	0.46	22	64	Y
Specialty Matte Silver	14	56	30	13	38	62	85	1.05	0.25	>98	0.7	0.22	78	0.52	75	87	Y
Color Graphic Blue	55	7	38	38	5	7	14	1.14	0.76	>98	0.86	0.66	34	0.5	24	62	Y