

## Physical Properties & Resin Suitability for

### OrcoSolve™ Solvent Dyes

OrcoSolve™ solvent soluble dyes are applicable primarily to plastics. Other mediums dyeable by OrcoSolve™ dyes include aromatic hydrocarbons, oils, fats, waxes, and wood stains.

Page 1 of 2

Identification		Physical Properties				Resin Suitability							
OrcoSolve™	Color Index	Chemical Character	Specific Gravity (g/cm <sup>3</sup> )	Melting Point (°C)	Light fastness in Poly styrene	Poly styrene	Rigid PVC	PolyPropylene	PMMA	ABS SAN	Poly ester	Poly carbonate	Poly amide
Nigrosine SB	SBk 5		1.30										
Nigrosine NB Base	SBk 7	Azine	1.25	142	5-6	x	x		x	x			
Blue B 200%	SB 35	Anthraquinone	1.40	115	7	x	x		x		x		
Blue AP	SB 36	Anthraquinone	1.25	169-173	7				x				
Blue 20	SB 58	Anthraquinone	1.51	86	6	x		x	x	x			
Blue N	SB 59	Anthraquinone	1.72	208-216	7	x	x		x				
Blue ERO	SB 102	Anthraquinone	1.37	142	5-7	x	x		x	x	x		
Blue 2B	SB 104	Anthraquinone	1.30	240	7	x	x	x	x	x	x	x	x
Blue 2R	SB 128	Anthraquinone	1.51	266-270	7-8	x	x		x	x			
Green B	SG 3	Anthraquinone	1.35	213	6-7	x			x	x	x	x	x
Green 820	SG 28	Anthraquinone		200	6-7	x	x			x	x	x	
Orange PER	SO 60	Perinone	1.50	231-233	7-8	x	x		x	x	x	x	x
Orange Amber	SO 86	Anthraquinone	1.16	195-199	7	x			x				
Red SBRO	SR 23	Anthraquinone	1.20	198-202	5	x			x				
Red 4B	SR 24	Azo	1.18	80	7-8	x			x				
Oil Red GN	SR 26	Azo	1.50	220		x		x	x				
Red MX	SR 27	Azo	1.50	250	5-6	x		x	x				
Red 5	SR 52	Anthraquinone	1.37	280	5-7	x	x	x	x	x	x	x	x
Red SBA	SR 111	Anthraquinone	1.40	163-172	6-7	x	x		x	x	x	x	x
Red SBP	SR 135	Perinone	1.40	316-318	6-7	x			x	x	x	x	x

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Page 2 of 2

<b>Red SBSE</b>	SR 168	Anthraquinone	1.40	176	7	x	x		x	x		x	x
<b>Red SBSN</b>	SR 169	Anthraquinone	1.80	164-170	6-7	x	x		x	x		x	x
<b>Magenta 36</b>	SR 172	Anthraquinone	2.16	234-237	5-7	x	x		x		x		
<b>Red SBPN</b>	SR 179	Perinone	1.46	255	6	x			x	x	x	x	x
<b>Red SBTO</b>	SR 207	Anthraquinone	1.40	236-251	3-5	x	x		x	x	x	x	x
<b>Methyl Violet Base</b>	SV 8	Anthraquinone	1.35	180-183	6	x			x				x
<b>Violet IRS</b>	SV 13	Anthraquinone	1.35	180-184	6	x			x			x	
<b>Violet M</b>	SV 14	Anthraquinone	1.89	215	5-7	x			x	x	x		x
<b>Violet R</b>	SV 26	Anthraquinone	1.47	186	7	x	x	x	x	x	x	x	x
<b>Violet 3B</b>	SV 38	Anthraquinone	1.94	302	5-7	x	x		x		x		
<b>Yellow O</b>	SY 33	Quinoline	1.87	238-241	6	x	x		x	x	x	x	x
<b>Yellow EF</b>	SY 56	Azo	1.29	86		x			x				
<b>Yellow SBC</b>	SY 72	Azo	1.03	176	6	x		x	x				
<b>Yellow 4G</b>	SY 93	Monomethine	1.35	181	7	x	x		x	x		x	
<b>Yellow G</b>	SY 114	Naphthalamide	1.49	264	7	x	x		x	x	x	x	
<b>Yellow GS</b>	SY 163	Anthraquinone	1.30	182-186	6-7	x		x	x	x	x	x	x
<b>Yellow TG</b>	SY 167	Anthraquinone	1.95	188	6-7	x			x		x	x	x
<b>Fluorescent Green E</b>	SG 5	Anthraquinone	1.42	205	8	x			x			x	x
<b>Fluorescent Orange FC</b>	SO 63	Thioxanthrene	1.73	310	7	x	x	x	x	x	x	x	x
<b>Fluorescent Red G</b>	SR 277	Anthraquinone	1.70	144-146	5-7	x	x		x	x	x	x	x
<b>Fluorescent Red 5B</b>	VR 41	Anthraquinone	1.00	296	7	x			x	x		x	x
<b>Fluorescent Yellow 10GN</b>	DpY 82	Anthraquinone	1.50	236-238	5-7	x			x	x	x	x	x
<b>Fluorescent Yellow 3GF</b>	SY 98	Xanthene		220	7	x			x	x	x	x	x
<b>Fluorescent Yellow FG</b>	SY 43	Naphthalamide	1.30	124-128	1-3	x			x				
<b>Fluorescent Yellow 6G</b>	SY 44	Naphthalamide	1.86	230		x			x				
<b>Yellow C6</b>	SY 109	Naphthalamide	1.72			x			x				