Sign us for Colours

NIRBHAY
Rasayan Pvt. Ltd.

Mfrs & Exporters of Phthalocyanine
Blue Crude & Phthalocyanine Pigments

Corporate Office:
NIRBHAY RASAYAN PVT. LTD.
B-09, Western Edge II, Off. Western Express Highway, Magathane, Borivali East, Mumbai – 400066. Maharashtra, INDIA
Tel: +91-22-2870 5054 / 5055 / 5056 / 5057 • **Email: info@nirbhayrasayan.com, sales@nirbhayrasayan.com**
Website: www.nirbhayrasayan.com

Regn. No: QAIC / IN / 1240 - A

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NIRBHAFAST

AZO PIGMENTS

HIGH PERFORMANCE PIGMENTS

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NIRBHAY Rasayan Pvt. Ltd.

Sr. No.	Product Name	Colour Shade		Physical Properties													
								Resistance to									
	C.I. Generic Name C.I. Constitution No. Pigment Class	Mass Tone	Tint Tone	Specific Gravity	Bulk Volume (litres/kg)	Oil Absorption (gm/100 gms)	PH of 2% extract	water	5% Acid (HCL)	5% Alkali (Naoh)	Lime	Ethanol	Ethyl Acetate	Xylene	Methyl Ethyl ketone	Mineral Turpentine	D.O.P
1	**Nirbhafast Yellow G** (Pigment Yellow 1) 11680 Monoazo Yellow			1.5	8	35±2	6.8	5	5	5	4-5	2	4	1-2	2-3	3-4	4
2	**Nirbhafast Yellow 10G** (Pigment Yellow 3) 11710 Monoazo Yellow			1.62	5	33±2	6.8	5	5	5	5	3-4	3	2-3	3	4-5	4
3	**Nirbhafast Yellow OP** (Pigment Yellow 12) 21090 Diarylide Yellow			1.4	9.6	33±2	6.8	5	4	4	5	4-5	5	4	4	4-5	4
4	**Nirbhafast Yellow TR** (Pigment Yellow 12) 21090 Diarylide Yellow			1.45	6	40±2	7	5	5	5	5	4	3	2	3	4	4
5	**Nirbhafast Yellow TLU** (Pigment Yellow 12) 21090 Diarylide Yellow			1.6	3	24±2	7	5	4	4	3-4	3-4	4-5	3-4	3-4	4	4
6	**Nirbhafast Yellow TLU-SPL** (Pigment Yellow 12) 21090 Diarylide Yellow			1.6	2.8	26±2	7	5	4	4	3-4	3-4	4-5	3-4	3-4	4	4
7	**Nirbhafast Yellow GRX-OP** (Pigment Yellow 12) 21100 Diarylide Yellow			1.45	8	34±2	6.8	5	5	5	5	5	4	3-4	4	5	5
8	**Nirbhafast Yellow GRX-TR** (Pigment Yellow 13) 21100 Diarylide Yellow			1.5	4	36±2	7	5	5	5	4	5	4	3	3	4	4-5
9	**Nirbhafast Yellow GRX-NC** (Pigment Yellow 13) 21100 Diarylide Yellow			1.6	2	18±2	7	5	5	5	4	3-4	4	3-4	3	4-5	4
10	**Nirbhafast Yellow GRT-OP** (Pigment Yellow 14) 21095 Diarylide Yellow			1.4	8	33±2	6.8	5	4	4	3-4	4-5	5	3-4	3-4	4-5	5
11	**Nirbhafast Yellow GRT PGID** (Pigment Yellow 14) 21095 Diarylide Yellow			1.5	4.2	32±2	7	5	4	4	4-5	5	4-5	3	3-4	4-5	4-5
12	**Nirbhafast Yellow GG** (Pigment Yellow 17) 21105 Diarylide Yellow			1.4	7.6	42±2	6.8	5	4	3-4	5	4	4-5	4	4-5	4	5

Sr. No.	Printing Inks																	Coatings										Plastics						Other Appl.	
	Light Fastness		Paste Inks					Liquid Inks										Decorative		Industrial					Automotive				Polymers							
								Flexo		Gravure																									
	Full Tone	Tint Tone	Sheet fed	Heatset	Coldset	Silk Screen	Metal Decorative	Water Based	Solvent Based	Vinyl	Nitro Cellulose (NC)	Polymide(PA)	Poly Urethene (PU)	NC / PA	NC / PU	Cl-Polypropylene	Publication Gravure	water Based	Air Drying Enamel	Stoving Paint	Acid Cured	Amine Cured	Powder Coating	Coil Coating	OEM	Refinish	Heat Stability °C	Fastness to overspray	Polyolefins-PP/HDPE/LDPE	Engineering Polymers	PVC	Rubber	Heat Stability °C	fastness to migration	Leather Paste	Textile Printing
1	7	4-5			○	●		●										●	●		●						180	3							●	●
2	7	6	●			●												●	●		●						180	3							●	●
3	4	2	•	●	●		○	●																							●	●	150	3		●
4	5	4	●	●	●		○			○		○																								
5	5	4	●	●	●		○		●	●	●	●	●	●	●	●	●																			
6	5	4	●	●	●		○		●	●	●	●	●	●	●	●	●																			
7	6-7	4-5	●	●	●		○	●										●	○			○					180	3	●		●	●	200	4-5	●	●
8	6	5	●	●	●		○			○	○	●																	●		●	○	200	4		
9	5-6	4-5	●	●	●		○		●	●	●	●	●	●	●	●	●																			
10	5	3	●	●	●		○	●														○									●	●	200			●
11	6	4	●	●	●		○		●	●	●	●	●	●	●	●	●																			
12	6	5-6	●	●																		○							●		●	●	200	4-5	●	●

Legend: • Light fastness (1-8 scale) 8-Excellent 1-Poor
• Chemical resistance / migration (1-5 Scale) 5 - Excellent 1- Poor

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Sr. No.	Product Name	Colour Shade		Physical Properties														
								Resistance to										
	C.I. Generic Name C.I. Constitution No. Pigment Class	Mass Tone	Tint Tone	Specific Gravity	Bulk Volume (litres/kg)	Oil Absorption (gm/100 gms)	PH of 2% extract	water	5% Acid (HCL)	5% Alkali (Naoh)	Lime	Ethanol	Ethyl Acetate	Xylene	Methyl Ethyl ketone	Mineral Turpentine	D.O.P
13	**Nirbhafast Yellow GL** (Pigment Yellow 61) 13940 Monoazo Yellow, Ca			1.4	6.5	36±2	7	5	5	5	4-5	4	4	4	4	5	5
14	**Nirbhafast Yellow GPA** (Pigment Yellow 65) 11740 Monoazo Yellow, Ca			1.35	8-9	42±2	7	4-5	4	4	4-5	3-4	3-4	3	3	4-5	5
15	**Nirbhafast Yellow GPA** (Pigment Yellow 65) 11740 Monoazo Yellow			1.4	7	41±2	6.8	5	5	5	5	4	4	4	4	5	4-5
16	**Nirbhafast Bri. Yellow 5GSC** (Pigment Yellow 74) 11741 Monoazo Yellow			1.5	5	35±2	6.8	5	5	5	5	4	4	4	3-4	4-5	4-5
17	**Nirbhafast Bri. Yellow 2GSC** (Pigment Yellow 74) 11741 Monoazo Yellow			1.55	4	30±2	6.8	5	5	5	5	5	5	5	4	5	5
18	**Nirbhafast Yellow HR-OP** (Pigment Yellow 83) 21108 Diarylide Yellow			1.45	5	37±2	6.8	5	5	5	5	4-5	4-5	5	4-5	5	5
19	**Nirbhafast Yellow HR-O2** (Pigment Yellow 83) 21108 Diarylide Yellow			1.4	4.2	30±2	7	5	5	5	5	4-5	4-5	4-5	4-5	5	5
20	**Nirbhafast Yellow HR-LF** (Pigment Yellow 83) 21108 Diarylide Yellow			1.45	4.2	35±2	7	5	5	5	5	4-5	4-5	4-5	4-5	5	5
21	**Nirbhafast Yellow HR-NC** (Pigment Yellow 83) 21108 Diarylide Yellow			1.55	4	33±2	7	5	5	4-5	4-5	5	4-5	3-4	4-5	5	4
22	**Nirbhafast Fast Yellow GP** (Pigment Yellow 168) 13960 Monoazo Yellow, Ca			1.45	7.4	33±2	7	5	5	4	4	3-4	3-4	3-4	3-4	4-5	5
23	**Nirbhafast Yellow PL** (Pigment Yellow 183) 18792 Monoazo Yellow, Ca			1.45	4	35±2	7	5	5	5	5	4-5	4-5	4	4-5	5	5
24	**Nirbhafast Yellow SGR** (Pigment Yellow 191:1) 18795 Monoazo Yellow, Ca			1.5	9	43±2	7	5	5	5	5	3-4	3-4	3	3-4	5	5

Sr. No.	Printing Inks																	Coatings											Plastics						Other Appl.	
	Light Fastness		Paste Inks					Liquid Inks										Decorative		Industrial					Automotive				Polymers							
								Flexo		Gravure																											
	Full Tone	Tint Tone	Sheet fed	Heatset	Coldset	Silk Screen	Metal Decorative	Water Based	Solvent Based	Vinyl	Nitro Cellulose (NC)	Polymide(PA)	Poly Urethene (PU)	NC / PA	NC / PU	Cl-Polypropylene	Publication Gravure	water Based	Air Drying Enamel	Stoving Paint	Acid Cured	Amine Cured	Powder Coating	Coil Coating	OEM	Refinish	Heat Stability °C	Fastness to overspray	Polyolefins-PP/HDPE/LDPE	Engineering Polymers	PVC	Rubber	Heat Stability °C	fastness to migration	Leather Paste	Textile Printing
13	6-7	5																●	●	●			●				200	4	●		●		250	5		
14	7	6																●	●				●				200	4	●		●		250	5		
15	7	6	○	○	○			●	○	○	○	○						●	●	●	●		○				180	3								
16	7	5-6	●	○	○	●		●	●	●	●	●	●	●	●	●		●	●	○	●		●				180	3								●
17	7	6	○	○	○			●	○	○		○	○		○			●	●	●	●		●				200	5								
18	7	5-6	●	●	●		○	●										●	●	●	●	●	●	●			180	4	●		●	●	200	4-5	●	●
19	7	5-6																●	●	●	●	●	●	●			200	4-5	●		●	●	200	4-5		
20	7-8	6-7																●	●	●	●	●	●	●			200	5								
21	7-8	6-7							●	●	●	●	●	●	●	●	●																			
22	7-8	6-7																●	●				●				200	4	●		●	●	250	5		
23	8	7																											●	●	●	●	300	5		
24	7-8	7																●	●				●				250	4	●	●	●	●	300	5		

Legend: • Light fastness (1-8 scale) 8-Excellent 1-Poor
• Chemical resistance / migration (1-5 Scale) 5 - Excellent 1- Poor

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Sr. No.	Product Name	Colour Shade		Physical Properties														
								Resistance to										
	C.I. Generic Name C.I. Constitution No. Pigment Class	Mass Tone	Tint Tone	Specific Gravity	Bulk Volume (litres/kg)	Oil Absorption (gm/100 gms)	PH of 2% extract	water	5% Acid (HCL)	5% Alkali (Naoh)	Lime	Ethanol	Ethyl Acetate	Xylene	Methyl Ethyl ketone	Mineral Turpentine	D.O.P
25	**Nirbhafast Orange 5 EY** (Pigment Orange 5) 12075 Monoazo ß-Nepthol			1.45	6.4	33±2	6.8	5	5	5	5	5	3	3	3	4	5
26	**Nirbhafast Orange 5 NC** (Pigment Orange 5) 12075 Monoazo ß-Nepthol			1.6	3.2	33±2	6.8	5	5	5	5	4-5	3-4	3	3-4	4-5	4-5
27	**Nirbhafast Fast Orange SC** (Pigment Orange 13) 21110 Disazopyrazolone			1.5	7-8	39±2	6.8	5	5	4-5	5	4	3-4	3	3-4	4	5
28	**Nirbhafast Fast Orange GR** (Pigment Orange 34) 21115 Disazopyrazolone			1.5	8	35±2	6.8	5	5	5	5	4	4	3	4	4	5
29	**Nirbhafast Fast Orange GR-NC** (Pigment Orange 34) 21115 Disazopyrazolone			1.55	3	22±2	6.8	5	5	5	5	4-5	4-5	3-4	4-5	4-5	4
30	**Nirbhafast Fast Orange GR-LF** (Pigment Orange 34) 21115 Disazopyrazolone			1.65	3	26±2	6.8	5	5	5	5	4-5	4-5	4	4	4-5	5
31	**Nirbhafast Red F2R** (Pigment Red 2) 12310 Monoazo Napthol AS			1.4	4-5	36±2	6.8	5	5	3	4	3	3	2	2-3	3-4	3
32	**Nirbhafast Hansa Red SC** (Pigment Red 3) 12120 Monoazo ß-Nepthol			1.5	6	33±2	6.8	5	5	5	5	3	3-4	2-3	2-3	4	5
33	**Nirbhafast Signal Red SC** (Pigment Red 4) 12085 Monoazo ß-Nepthol			1.55	7-8	33±2	6.8	5	4-5	4	4-5	4	3-4	3	3-4	4	5
34	**Nirbhafast Caramine Red FB** (Pigment Red 5) 12490 Monoazo Napthol AS			1.65	6	39±2	6.8	5	5	5	5	4	4	4	4	5	5
35	**Nirbhafast Red F4R** (Pigment Red 8) 12335 Monoazo Napthol AS			1.45	7-8	36±2	6.8	5	4	4-5	5	4	3-4	3	3-4	4	3
36	**Nirbhafast Bordeaux F2R** (Pigment Red 12) 12385 Monoazo Napthol AS			1.4	7.8	35±2	6.8	5	4	4	4	3	2	2-3	1-2	4	4

Sr. No.	Printing Inks																		Coatings										Plastics						Other Appl.	
	Light Fastness		Paste Inks					Liquid Inks											Decorative		Industrial				Automotive				Polymers							
								Flexo		Gravure																										
	Full Tone	Tint Tone	Sheet fed	Heatset	Coldset	Silk Screen	Metal Decorative	Water Based	Solvent Based	Vinyl	Nitro Cellulose (NC)	Polymide(PA)	Poly Urethene (PU)	NC / PA	NC / PU	Cl-Polypropylene	Publication Gravure	water Based	Air Drying Enamel	Stoving Paint	Acid Cured	Amine Cured	Powder Coating	Coil Coating	OEM	Refinish	Heat Stability °C	Fastness to overspray	Polyolefins-PP/HDPE/LDPE	Engineering Polymers	PVC	Rubber	Heat Stability °C	fastness to migration	Leather Paste	Textile Printing
25	4-5	3-4	●			●		●										●	●		●						180	4-5								
26	5-6	4-5	●	●	●	●			●	●	●	●	●	●	●	●	●																			
27	7	5	●	●	●		●	●	●	●	●	●	●	●	●	●	○	●	●		●		○				150	4	●		●	●	200	3-4		●
28	5	4	●	●	●			●										●	●	●	●		●				180	4	●		●	●	200	4		●
29	5	4-5	●	●	●		○		●	●	●	●	●	●	●	●	●																			
30	7-8	7-8																●	●	●	●		●				200	5								
31	6-7	4-5	●	●	●			●	●	●	●	●	●	●	●	●	●	●																		●
32	6	5-6																●	●		●	●					180	3								
33	6	3	●	●	●	●		●	●	●	●	●	●	●	●	●		●	●																	
34	5	4	●	●	●	●		●	●	●	●	●	●	●	●			●	●	○							180	3			○		180	3		●
35	5	4	●		●			●		●		●						●																		●
36	7	4-5																●	●	○	●	○					160	3							●	●

Legend: • Light fastness (1-8 scale) 8-Excellent 1-Poor
• Chemical resistance / migration (1-5 Scale) 5 - Excellent 1- Poor

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	C.I. Generic Name C.I. Constitution No. Pigment Class	Mass Tone	Tint Tone	Specific Gravity	Bulk Volume (litres/kg)	Oil Absorption (gm/100 gms)	PH of 2% extract	water	5% Acid (HCL)	5% Alkali (Naoh)	Lime	Ethanol	Ethyl Acetate	Xylene	Methyl Ethyl ketone	Mineral Turpentine	D.O.P
37	**Nirbhafast Red Toner 2B (Ba)** (Pigment Red 48:1) 15865:1 Monoazo BONA, Ba			1.6	5	33±2	7	5	2	4	4	3-4	3-4	4	3-4	4	5
38	**Nirbhafast Red Toner 2B (Ca)** (Pigment Red 48:2) 15865:2 Monoazo BONA, Ca			1.45	6-7	42±2	7	5	2-3	2-3	3-4	4	4	3-4	3-4	4	5
39	**Nirbhafast Red Toner 2B (Sr)** (Pigment Red 48:3) 15865:3 Monoazo BONA, Sr			1.55	3-4	36±2	7	5	2	4	4	4-5	4-5	4-5	4-5	5	5
40	**Nirbhafast Red Toner 2B (Mn)** (Pigment Red 48:4) 15865:4 Monoazo BONA, Mn			1.55	3-4	36±2	7	5	1	5	2-3	2	4	4	4	4	5
41	**Nirbhafast lake Red SC-507** (Pigment Red 53:1) 15585:1 Monoazo, ß-Napthol, Ba			1.75	6-7	38±2	7	5	2	4	4-5	4	4	4	3-4	4-5	3
42	**Nirbhafast lake Red STL** (Pigment Red 53:1) 15585:1 Monoazo, ß-Napthol, Ba			1.8	4-5	37±2	7	4	3-4	4-5	4-5	3-4	3-4	3-4	3-4	4	3
43	**Nirbhafast lake Red SCLL** (Pigment Red 53:1) 15585:1 Monoazo, ß-Napthol, Ba			1.75	4-5	35±2	7	5	3	4	4-5	4	4	4	4	4	3
44	**Nirbhafast Rubine Toner UPY** (Pigment Red 57:1) 15850:1 Monoazo, BONA, Ca			1.5	6-7	42±2	7	4-5	1	3	3-4	3	3	3	2	3-4	4
45	**Nirbhafast Rubine Toner PBC** (Pigment Red 57:1) 15850:1 Monoazo, BONA, Ca			1.6	5-6	48±2	7	4-5	3	2	2-3	3	3	3	3	3-4	4
46	**Nirbhafast Rubine Toner C7B** (Pigment Red 57:1) 15850:1 Monoazo, BONA, Ca			1.6	5-6	48±2	7	4-5	3	2	2-3	3	3	3	3	3-4	4
47	**Nirbhafast Rubine Toner NC** (Pigment Red 57:1) 15850:1 Monoazo, BONA, Ca			1.65	2-3	45±2	7	4-5	1	3	3-4	3	3	3	2	3-4	4
48	**Nirbhafast Maroon Toner** (Pigment Red 63:1) 15880:1 Monoazo, BONA, Ca			1.6	6-7	43±2	7	4-5	1	3	3-4	3-4	3-4	4	3	4	5

Sr. No.	Printing Inks																		Coatings											Plastics						Other Appl.	
	Light Fastness		Paste Inks					Liquid Inks											Decorative		Industrial					Automotive				Polymers							
								Flexo		Gravure																											
	Full Tone	Tint Tone	Sheet fed	Heatset	Coldset	Silk Screen	Metal Decorative	Water Based	Solvent Based	Vinyl	Nitro Cellulose (NC)	Polymide(PA)	Poly Urethene (PU)	NC / PA	NC / PU	Cl-Polypropylene	Publication Gravure	water Based	Air Drying Enamel	Stoving Paint	Acid Cured	Amine Cured	Powder Coating	Coil Coating	OEM	Refinish	Heat Stability °C	Fastness to overspray	Polyolefins-PP/HDPE/LDPE	Engineering Polymers	PVC	Rubber	Heat Stability °C	fastness to migration	Leather Paste	Textile Printing
37	5	4																											●		●	●	220	4		
38	3	3																					○						●		●	●	240	4		
39	6-7	5-6																					○						●		●	●	220	4		
40	4	4																		●	●		●				180	5								
41	5	3	●	●	●		●	●		●	●	●		●									●						●		●	●	250	5		
42	5	3	●	●	●		●	●	●	●	●	●	●	●	●	●	●																			
43	4	2					○	●																					●		●	●	250	4		
44	5	4	●	●	●					●	●	●		●				●	●	●							180	4	●		●	●	220	4	●	
45	5	3	●	●	●	○	○	●											●	○			●				180	4	●		●	●	220	4	●	
46	5	3	●	●	●	○	○	●											●	○			●				180	4	●		●	●	220	4	●	
47	6	5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●																			
48	6	3-4																	●	○			○				160	4			●		160	4	●	

Legend: • Light fastness (1-8 scale) 8-Excellent 1-Poor
• Chemical resistance / migration (1-5 Scale) 5 - Excellent 1- Poor

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								Resistance to										
	C.I. Generic Name C.I. Constitution No. Pigment Class	Mass Tone	Tint Tone	Specific Gravity	Bulk Volume (litres/kg)	Oil Absorption (gm/100 gms)	PH of 2% extract	water	5% Acid (HCL)	5% Alkali (Naoh)	Lime	Ethanol	Ethyl Acetate	Xylene	Methyl Ethyl ketone	Mineral Turpentine	D.O.P
49	**Nirbhafast Fast Red SC-FGR** (Pigment Red112) 12370 Monoazo Napthol AS			1.4	8-9	35±2	6.8	5	5	3-4	4	4	3-4	3	3-4	4	5
50	**Nirbhafast Fast Red SC-FGR02** (Pigment Red 112) 12370 Monoazo Napthol AS			1.4	7.8	33±2	6.8	5	5	5	5	4	4	4	4	4	5
51	**Nirbhafast Caramine Red F2B** (Pigment Red 146) 12485 Monoazo Napthol AS			1.45	3-4	33±2	6.8	5	5	5	5	4	3	3-4	3	4-5	4
52	**Nirbhafast Red F3RK-OP** (Pigment Red 170) 12475 Monoazo Napthol AS			1.5	4-5	40±2	6.8	5	5	5	5	5	4-5	5	4	5	5
53	**Nirbhafast Red F5RK** (Pigment Red 170) 12475 Monoazo Napthol AS			1.55	5.6	33±2	6.8	5	5	5	5	4-5	4-5	4-5	4	4	4
54	**Nirbhafast Red F5RK-WR** (Pigment Red 170) 12475 Monoazo Napthol AS			1.6	3-4	30±2	6.8	5	5	5	5	4-5	4-5	4-5	4	4	4
55	**Nirbhafast Rubine F6B** (Pigment Red 184) 12487 Monoazo Napthol AS			1.6	4-5	39±2	6.8	5	5	5	5	4-5	3-4	4	3-4	4-5	5
56	**Nirbhafast Voilet Red YRV** (Pigment Voilet 19) 73900 Quinacridone			1.8	2.5-3	50±2	7-8	5	5	5	5	5	4-5	5	4-5	5	5
57	**Nirbhafast Voilet RP** (Pigment Voilet 23) 51319 Dioxazine			1.35	2-2.5	60±2	6-7.5	5	5	5	5	5	5	5	5	5	5
58	**Nirbhafast Voilet RI** (Pigment Voilet 23) 51319 Dioxazine			1.35	2-2.5	60±2	6-75	5	5	5	5	5	5	5	5	5	5
59	**Nirbhafast Pink RP** (Pigment Red 122) 73915 Quinacridone			1.45	2-2.5	58±2	6-7.5	5	5	5	5	5	5	5	5	5	5
60	**Nirbhafast Red UG** (Pigment Red 254) 56110 Diketopyrrolo Pyrrole			1.55	2-2.5	24±2	6-7	5	5	5	5	5	5	5	5	5	5

Sr. No.	Printing Inks																	Coatings											Plastics						Other Appl.	
	Light Fastness		Paste Inks					Liquid Inks										Decorative		Industrial					Automotive				Polymers							
								Flexo		Gravure																											
	Full Tone	Tint Tone	Sheet fed	Heatset	Coldset	Silk Screen	Metal Decorative	Water Based	Solvent Based	Vinyl	Nitro Cellulose (NC)	Polymide(PA)	Poly Urethene (PU)	NC / PA	NC / PU	Cl-Polypropylene	Publication Gravure	water Based	Air Drying Enamel	Stoving Paint	Acid Cured	Amine Cured	Powder Coating	Coil Coating	OEM	Refinish	Heat Stability °C	Fastness to overspray	Polyolefins-PP/HDPE/LDPE	Engineering Polymers	PVC	Rubber	Heat Stability °C	fastness to migration	Leather Paste	Textile Printing
49	6-7	5	●	●	●			●	●	●	●	●		●		●		●	●		●		○				180	3								●
50	7-8	6																●	●	○	●	○	●				180	3								●
51	5-6	5	●	●			●	●	●	●	●	●	●	●	●			●	●				○				180	3	●		●		180	4		●
52	7-8	7	●	○	○	●	●	●	●	●	●	○		○				●	●	●	●	●	●		○	●	200	5	●	○	○	●	260	4	●	●
53	7	7	●	○	○	●	●	●	●	●	●	○		○				●	●	●	●	●	●				200	5	●	○	○	●	240	4	●	●
54	7	7	●	○	○	●	●	●	●	●	●	○		○				●	●	●	●	●	●				200	5	●	○	○	●	240	4	●	●
55	5-6	5	●	●	●		●	●	●	●	●	●		●			●	○	○	○	○		○				180	4							●	●
56	8	7	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	200	5	●	●	●	●	250	5	●	●
57	8	7																											●	●	●	●	280	5	●	●
58	8	7						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	200	5								
59	8	7	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	200	5	●	●	●	●	280	5	●	●
60	8	7		●					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	280	5	●	●	●	●	280	5		

Legend: • Light fastness (1-8 scale) 8-Excellent 1-Poor
• Chemical resistance / migration (1-5 Scale) 5 - Excellent 1- Poor

Disclaimer Statement: The information provided in the shade card are for the guidance of the user.
It is the responsibility of the user to test and verify before use

● = Recommended ○ = Limited Suitability